

# **DIABETES**

## **LITERATURE INDEX**

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE

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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the  
National Institute of Arthritis, Metabolism, and Digestive Diseases

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Building 31, Room 9A-03  
Bethesda, Maryland 20014

*Other individuals and other libraries* may receive this publication by subscribing *directly* to the Superintendent of Documents. Subscription price per year in the United States, Canada, and Mexico, \$26.50 (cumulative index issue not included; will be on sale, price to be determined later); foreign, \$6.65 additional; and \$2.25 for a single copy. Payment is required in advance, and check or money order should be made payable to the Superintendent of Documents. Address changes for subscribers should be sent *directly* to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the *Diabetes Key Word Index* and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

I	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	I.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
I.A	ISLANDS OF LANGERHANS	I.E.3.6	HYPERGLYCEMIA, ETIOLOGY
I.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	I.E.3.7	HYPERGLYCEMIA, METABOLISM
I.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	I.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
I.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	I.E.3.9	HYPERGLYCEMIA, URINE
I.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	I.E.4	GLYCOSURIA
I.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	I.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
I.B	PANCREAS	I.E.4.2	GLYCOSURIA, COMPLICATIONS
I.B.1	PANCREAS, ANATOMY RELATED	I.E.4.3	GLYCOSURIA, DIAGNOSIS
I.B.2	PANCREAS, BIOCHEMISTRY RELATED	I.E.4.4	GLYCOSURIA, DRUG THERAPY
I.B.3	PANCREAS, PHYSIOLOGY RELATED	I.E.4.5	GLYCOSURIA, ENZYMOLOGY
I.B.4	PANCREAS, PHARMACOLOGY RELATED	I.E.4.6	GLYCOSURIA, ETIOLOGY
I.B.5	PANCREAS, PATHOLOGY RELATED	I.E.4.7	GLYCOSURIA, METABOLISM
I.B.6	PANCREAS, SURGERY RELATED	I.E.4.8	GLYCOSURIA, OCCURRENCE
I.B.6.1	PANCREAS, TRANSPLANTATION	I.E.5	GLYCOSURIA, RENAL
I.B.6.2	PANCREATCTOMY	I.E.6	HYPOGLYCEMIA
I.C	INSULIN	I.E.6.1	HYPOGLYCEMIA, BLOOD
I.C.1	INSULIN, BIOCHEMISTRY RELATED	I.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
I.C.1.1	INSULIN, ISOLATION AND PURIFICATION	I.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
I.C.1.2	INSULIN, ANALYSIS	I.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
I.C.1.3	INSULIN, CHEMICAL SYNTHESIS	I.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
I.C.1.4	INSULIN, BIOSYNTHESIS	I.E.6.6	HYPOGLYCEMIA, ETIOLOGY
I.C.1.5	INSULIN, METABOLISM	I.E.6.7	HYPOGLYCEMIA, METABOLISM
I.C.1.6	INSULIN, BLOOD	I.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
I.C.1.7	INSULIN, URINE	I.E.6.9	HYPOGLYCEMIA, THERAPY
I.C.2	INSULIN, PHYSIOLOGY RELATED	I.F	DIABETES
I.C.2.1	INSULIN, PHYSIOLOGY	I.F.1	ALLOXAN DIABETES (SEE SEC. I.F.10.2)
I.C.2.2	INSULIN, SECRETION	I.F.2	DIABETES MELLITUS
I.C.3	INSULIN, PHARMACOLOGY RELATED	I.F.2.1	DIABETES MELLITUS, JUVENILE
I.C.3.1	INSULIN, PHARMACODYNAMICS	I.F.3	DIABETES, BIOCHEMISTRY RELATED
I.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	I.F.3.1	DIABETES, METABOLISM
I.C.3.3	INSULIN, ADVERSE EFFECTS	I.F.3.2	DIABETES, ENZYMOLOGY
I.C.4	HYPERINSULINISM	I.F.3.3	DIABETES, BLOOD
I.C.4.1	INSULIN COMA	I.F.3.4	DIABETES, URINE
I.C.5	INSULIN ANTIBODIES	I.F.4	DIABETES, PHYSIOPATHOLOGY
I.C.6	INSULIN RESISTANCE	I.F.5	DIABETES, IMMUNOLOGY
I.C.7	INSULIN, THERAPY RELATED	I.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
I.C.7.1	INSULIN, DIAGNOSTIC USE	I.F.6.1	DIABETIC KETOACIDOSIS
I.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE I.F.9.3.1)	I.F.6.1.1	ACIDOSIS, DIABETIC
I.C.7.3	INSULIN, THERAPEUTIC USE (SEE I.F.9.3.2)	I.F.6.1.2	DIABETIC COMA
I.C.8	INSULIN, HISTORY	I.F.6.2	DIABETIC ANGIOPATHIES
I.D	GLUCAGON	I.F.6.3	DIABETIC NEPHROPATHIES
I.D.1	GLUCAGON, BIOCHEMISTRY RELATED	I.F.6.4	DIABETIC NEUROPATHIES
I.D.1.1	GLUCAGON, ANALYSIS	I.F.6.5	DIABETIC RETINOPATHY
I.D.1.2	GLUCAGON, METABOLISM	I.F.6.6	OTHER COMPLICATIONS OF DIABETES
I.D.1.3	GLUCAGON, BLOOD	I.F.6.7	DIABETES PATHOLOGY
I.D.2	GLUCAGON, PHYSIOLOGY RELATED	I.F.6.8	PREGNANCY IN DIABETES
I.D.2.1	GLUCAGON, PHYSIOLOGY	I.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
I.D.2.2	GLUCAGON, SECRETION	I.F.7.1	DIABETES, OCCURRENCE
I.D.3	GLUCAGON, PHARMACOLOGY RELATED	I.F.7.2	DIABETES, ETIOLOGY
I.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	I.F.7.3	DIABETES, CONGENITAL
I.D.3.2	GLUCAGON, PHARMACODYNAMICS	I.F.7.4	DIABETES, FAMILIAL AND GENETIC
I.D.3.3	GLUCAGON, TOXICITY	I.F.7.5	PREDIABETIC STATE
I.D.4	GLUCAGON, THERAPY RELATED	I.F.8	DIABETES, DIAGNOSIS RELATED
I.D.4.1	GLUCAGON, DIAGNOSTIC USE	I.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. I.E.2)
I.D.4.2	GLUCAGON, THERAPEUTIC USE	I.F.8.2	DIABETES, DIAGNOSIS
I.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	I.F.9	DIABETES, THERAPY RELATED
I.E.1	BLOOD SUGAR	I.F.9.1	DIABETES, PREVENTION AND CONTROL
I.E.1.1	BLOOD SUGAR, ANALYSIS	I.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
I.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	I.F.9.2.1	OBESITY IN DIABETES
I.E.1.3	BLOOD SUGAR, METABOLISM	I.F.9.2.2	GLUCOSE, THERAPEUTIC USE
I.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	I.F.9.2.3	DIET
I.E.2	GLUCOSE TOLERANCE TEST	I.F.9.2.4	DIABETIC DIET
I.E.3	HYPERGLYCEMIA	I.F.9.2.5	DIETARY CARBOHYDRATES
I.E.3.1	HYPERGLYCEMIA, BLOOD	I.F.9.2.6	DIETARY FATS
I.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	I.F.9.2.7	CYCLAMATES
I.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	I.F.9.2.8	SACCHARIN
I.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	I.F.9.3	DIABETES, INSULIN AND THERAPY



# Arrangement of the Hierarchical Index

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE  
 1.F.9.3.2 INSULIN, THERAPEUTIC USE  
 1.F.9.4 DIABETES, ANTI-DIABETICS AND THERAPY  
 1.F.9.4.1 ANTI-DIABETICS  
 1.F.9.4.2 TOLBUTAMIDE  
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES  
 1.F.9.4.4 PHENFORMIN  
 1.F.9.4.5 OTHER BIGUANIDES  
 1.F.9.5 DIABETES DRUG THERAPY  
 1.F.9.6 DIABETES THERAPY  
 1.F.9.7 DIABETES, RADIOGRAPHY  
 1.F.9.8 DIABETES, SURGERY  
 1.F.9.9 DIABETES, MORTALITY  
 1.F.10 DIABETES, EXPERIMENTAL  
 1.F.10.1 DIABETES, CHEMICALLY INDUCED  
 1.F.10.2 ALLOXAN DIABETES  
 1.F.10.2.1 ALLOXAN DIABETES, BLOOD  
 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY  
 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY  
 1.F.10.2.4 ALLOXAN DIABETES, METABOLISM  
 1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY  
 1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY  
 1.F.11 DIABETES, VETERINARY  
 1.F.12 DIABETES, HISTORY  
 2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS  
 2A ENDOCRINE PANCREAS  
 2A.1 ISLETS (SEE SEC. 1.A)  
 2A.2 INSULIN (SEE SEC. 1.C)  
 2A.3 GLUCAGON (SEE SEC. 1.D)  
 2B ADRENAL GLANDS  
 2B.1 ADRENAL CORTEX  
 2B.2 ADRENAL CORTEX HORMONES  
 2B.2.1 GLUCOCORTICOIDS  
 2B.2.1.1 CORTISONE  
 2B.2.1.2 HYDROCORTISONE  
 2B.2.1.3 OTHER GLUCOCORTICOIDS  
 2B.2.2 MINERALOCORTICOIDS  
 2B.3 ADRENAL MEDULLA  
 2B.3.1 EPINEPHRINE  
 2B.3.2 NOREPINEPHRINE  
 2B.4 ADRENALECTOMY  
 2B.5 ADRENAL DISORDERS  
 2C THYROID GLAND  
 2C.1 THYROID HORMONES  
 2C.2 THYROID ANTAGONISTS  
 2C.3 THYROID DISORDERS  
 2D PARATHYROID GLANDS  
 2E PITUITARY GLAND  
 2E.1 PITUITARY HORMONES, ANTERIOR  
 2E.1.1 CORTICOTROPIN  
 2E.1.2 SOMATOTROPIN  
 2E.1.3 THYROTROPIN  
 2E.1.4 GONADOTROPINS, PITUITARY  
 2E.2 PITUITARY HORMONES, POSTERIOR  
 2E.3 PITUITARY HORMONES, INTERMEDIATE  
 2E.4 PITUITARY HORMONE-RELEASING FACTORS  
 2E.5 HYPOPHYSECTOMY  
 2E.6 PITUITARY DISORDERS  
 2F GONADS  
 2F.1 OVARY  
 2F.2 TESTIS  
 2F.3 SEX HORMONES  
 2F.3.1 ANDROGENS  
 2F.3.2 ESTROGENS  
 2F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES  
 2F.3.3.1 CORPUS LUTEUM HORMONES  
 2F.3.3.2 PROGESTATIONAL HORMONES  
 2F.3.4 CONTRACEPTIVES, ORAL  
 2F.4 GONADAL DISORDERS  
 2G OTHER ENDOCRINES AND RELATED TERMS  
 2G.1 ENDOCRINE GLANDS  
 2G.2 HORMONES  
 2G.2.1 GASTROINTESTINAL HORMONES  
 2G.2.2 PROSTAGLANDINS  
 2G.2.3 HORMONES, ECTOPIC  
 2G.2.4 PLACENTAL HORMONES  
 2G.2.5 RELAXIN

2.G.2.6 JUVENILE HORMONES  
 2.G.3 CHROMAFFIN SYSTEM  
 2.G.4 PINEAL BODY  
 2.G.5 PITUITARY-ADRENAL SYSTEM  
 2.G.6 SECRETORY RATE



## MEDLARS Terms Included in Hierarchical Index

- ACETOHEXAMIDE  
ACIDOSIS  
ACIDOSIS, DIABETIC  
ACROMEGALY  
ADDISON'S DISEASE  
ADRENAL CORTIX HORMONES  
ADRENAL GLAND HYPERFUNCTION  
ADRENAL GLAND HYPOFUNCTION  
ADRENAL GLANDS  
ADRENAL MEDULLA  
ADRENALECTOMY  
ADRENOGENITAL SYNDROME
- ALDOSTERONE  
ALLOXAN DIABETES  
BLOOD  
DRUG THERAPY  
ENZYMOLGY  
METABOLISM  
PATHOLOGY  
PHYSIOPATHOLOGY
- AMNIOCENTESIS  
ANABOLIC STEROIDS  
ANDROGENS  
ANDROSTERONE
- ANTI-DIABETICS  
APGAR SCORE  
ARTERIOSCLEROSIS  
BETAMETHASONE  
BIGUANIDES  
BLOOD SUGAR  
ANALYSIS  
BIOSYNTHESIS  
METABOLISM  
PHARMACODYNAMICS
- CALCITONIN  
CARBUTAMIDE  
CHLORMADINONE  
CHLORTRIANISENE  
CHLORPROPAMIDE  
CHOLECYSTOKININ  
CHOLESTEROL, DIETARY  
CHROMAFFIN SYSTEM  
CONTRACEPTIVES, ORAL  
CORONARY DISEASE  
CORPUS LUTEUM  
CORPUS LUTEUM HORMONES  
CORTICOSTERONE  
CORTICOTROPIN  
CORTICOTROPIN RELEASING HORMONE  
CORTISONE  
CRETINISM  
CUSHINGS SYNDROME  
CYCLAMATES  
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## 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

### 1.E.1 BLOOD SUGAR

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##### 1.F.6.1.1 ACIDOSIS, DIABETIC

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## 1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

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# CELLULOSE

## CELLULOSE

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#### EDUCATION

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[VERIFICATION OF THE CHOLESTEROL HYPOTHESIS IN ATHEROGENESIS WITH A MODEL OF DIETARY ATHEROMATOSIS IN CHICKENS FED WITH EGGS. INFLUENCE OF INSULIN AND ORAL ANTIDIABETICS] Valdes Chavarri M, Pascual-Leone A, O'Connor C *Rev Clin Exp* 143: 427-35, 15 Dec 76 (Spa) DL/77APR284

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#### INSULIN, PURIFIED

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**[INTERACTIONS BETWEEN ORAL ANTIDIABETICS AND OTHER DRUGS]** Berger W *Ther Umsch* 33: 633-8, Sep 76 (Ger) DL/77APR328

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ZINC

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MONOGRAPH (mortality); MUSCLES (metabolism); MYOCARDIUM (metabolism); NICOTINIC ACIDS (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; STRESS (metabolism); SYMPATHOLYTICS (pharmacodynamics).

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ANIMAL EXPERIMENTS (analysis); CHICKENS; DARKNESS; ENGLISH ABSTRACT; GLUCOSE (biosynthesis); GLYCOGEN PHOSPHORYLASE (metabolism); LIGHT; MALE; POLYSACCHARIDES (biosynthesis); RETINA (enzymology).

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ADOLESCENCE; ADULT; AGE FACTORS; BIRTH ORDER; CHILD, PRESCHOOL; CONSANGUINITY; DEAFNESS (complications); DIABETES MELLITUS (complications); ELECTROENCEPHALOGRAPHY; EPILEPSY (complications); ETHNIC GROUPS; FEMALE; FRIEDREICH'S ATAXIA (complications, familial & genetic, mortality); HEART DISEASES (complications); HUMAN; MALE; MATERNAL AGE; NEURAL CONDUCTION; OPTIC ATROPHY (complications); PATERNAL AGE; PREGNANCY COMPLICATIONS (in pregnancy); PREGNANCY; SEX FACTORS.

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EFFECT OF PHLORETIN ON THE PERMEABILITY OF THIN LIPID MEMBRANES. As

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ANIMAL; BLOOD COAGULATION; BLOOD PLATELETS; CHOLESTEROL (blood); DIABETES MELLITUS (physiopathology); DIET, ATHEROGENIC; FASTING; FATTY ACIDS, NONESTERIFIED (metabolism); FIBRINOGEN (metabolism); KIDNEY (metabolism); MALE; OBESITY (physiopathology); RATS; THROMBOPHLEBITIS (metabolism, physiopathology); TRIGLYCERIDES (blood).

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**AGE FACTORS; ANIMAL EXPERIMENTS (analysis); DEFICIENCY DISEASES (metabolism); DIETARY PROTEINS (therapeutic use); ENERGY METABOLISM; MALE; PROTEIN DEFICIENCY (blood, diet therapy); SOMATOTROPIN (blood); SWINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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BILE ACIDS AND SALTS (metabolism); CALORIC INTAKE; CHOLESTEROL (metabolism); DUODENUM (metabolism); GASTRIC JUICE (secretion); GASTRIN (blood); GLUCAGON (blood); GLUCOSE (metabolism); HUMAN; ILEUM (surgery); INTESTINAL

ABSORPTION; INTESTINAL MUCOSA (cytology); INTESTINE, SMALL (metabolism); JEJUNUM (surgery); OBESITY (therapy); OXALATES (metabolism); PHOSPHOLIPIDS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VITAMIN B 12 (metabolism).

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AMYLASE (metabolism); BICARBONATES (metabolism); BIOLOGICAL TRANSPORT; CHRONIC DISEASE; DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; DUODENUM (enzymology); HUMAN; LIPASE (metabolism); LIPIDS (metabolism); PANCREAS (metabolism, radiography); PANCREATIC DISEASES (diagnosis, metabolism, radiography); PROTEINS (metabolism); SECRETIN (metabolism); STARCH (metabolism); XYLOSE (metabolism).

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ADIPOSE TISSUE (enzymology); ADOLESCENCE; ADULT; BODY WEIGHT; DIET, REDUCING; ENGLISH ABSTRACT; FEMALE; GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HUMAN; MALE; MIDDLE AGE; OBESITY (diet therapy, enzymology); PYRIDOXINE (metabolism).

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STIMULATES DNA SYNTHESIS IN CULTURED CELLS. Bourne HR, Rozengurt E *Proc Natl Acad Sci USA* 73: 4555-9, Dec 76 (Eng) DL/77APR270

BIOLOGICAL TRANSPORT; CELL DIVISION; CELL LINE; CELLS, CULTURED; CULTURE MEDIA; DEOXYGLUCOSE (metabolism); DRUG SYNERGISM; DNA (biosynthesis); GROWTH SUBSTANCES (isolation & purification, pharmacodynamics); INSULIN (pharmacodynamics); KINETICS; MOLECULAR WEIGHT; PEPTIDES (pharmacodynamics); RUBIDIUM (metabolism); SERUM ALBUMIN, BOVINE (pharmacodynamics); SV40 VIRUS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; URIDINE (metabolism).

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DIABETES MELLITUS (complications); DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; HUMAN; LEPROSY (complications); TARSAL TUNNEL SYNDROME (diagnosis, etiology).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology); ADIPOSE TISSUE (enzymology, physiology); EPINEPHRINE (physiology); HUMAN; KINETICS; LIPASE (physiology); LIPID MOBILIZATION; TRIGLYCERIDES (metabolism).

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ANIMAL EXPERIMENTS (analysis); BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; EDTA (pharmacodynamics); ELECTRON SPIN RESONANCE; MAGNESIUM

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Brodanova M

(pharmacodynamics); MANGANESE (analysis, metabolism); MEMBRANES (metabolism); MITOCHONDRIA, LIVER (analysis, metabolism); MITOCHONDRIAL SWELLING; PHOSPHOLIPIDS (metabolism); RATS.

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BIOLOGICAL PROPERTIES OF CHEMICALLY MODIFIED INSULINS. I. BIOLOGICAL ACTIVITY OF PROINSULIN AND INSULIN MODIFIED AT A1-GLYCINE AND B29-LYSINE. Jones RH, Dron DI, Ellis MJ, Sonksen PH, Brandenburg D *Diabetologia* 12: 601-8, Dec 76 (Eng) DL/77APR99

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THE EFFECT OF STANDING AND EXERCISE ON PLASMA CATECHOLAMINES, SERUM INSULIN, AND SERUM GASTRIN. Christensen NJ, Brandsborg O *Scand J Clin Lab Invest* 36: 591-5, Oct 76 (Eng) DL/77APR294

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MEASUREMENT OF ANTIDIABETIC SULFONYLUREAS IN SERUM BY GAS CHROMATOGRAPHY WITH ELECTRON-CAPTURE DETECTION. Braselton WE Jr, Bransome ED Jr, Huff TA *Diabetes* 26: 50-7, Jan 77 (Eng) DL/77APR88

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CHEMISTRY; CHLORPROPAMIDE (blood, therapeutic use); CHROMATOGRAPHY, GAS (methods); DIABETES MELLITUS (drug therapy); ELECTRODES; HUMAN; SPECTRUM ANALYSIS, MASS; SULFONYLUREA COMPOUNDS (blood); TOLBUTAMIDE (analogs & derivatives, blood, therapeutic use); TRIFLUOROACETIC ACID (blood).

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MODIFICATION OF THE REGULATORY PROPERTIES OF PYRUVATE KINASE OF NEUROSPORA BY GROWTH AT ELEVATED TEMPERATURES. Kapoor M, O'Brien M, Braun A *Can J Biochem* 54: 398-407, May 76 (Eng) \*DL/77APR463

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MYELIN BASIC PROTEIN: A SUBSTANCE THAT RELEASES IMMUNOREACTIVE GROWTH HORMONE IN VITRO. Villarreal JA, Vale W, Brown M, Butcher M, Braceau P, Rivier C, Burgess R *Biochem Biophys Res Commun* 70: 551-8, 17 May 76 (Eng) \*DL/77APR750

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[CERTAIN GENERAL PRINCIPLES OF ENERGY METABOLISM IN TRAUMATIC SHOCK] Arkatov VA, Liaschenko MM, Brigidina Vla *Ortop Travmatol Protez* 1-5, Sep 75 (Rus) \*DL/77APR425

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SOMATOMEDIN IN CORD BLOOD: RELATIONSHIP TO GESTATIONAL AGE AND BIRTH SIZE. Gluckman PD, Brinsmead MW *J Clin Endocrinol Metab* 43: 1378-81, Dec 76 (Eng) DL/77APR161

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ADENOSINE TRIPHOSPHATASE (metabolism); ALCOHOL OXIDOREDUCTASES (antagonists & inhibitors); CELL DIVISION (drug effects); GLUCOSE (metabolism); GLYCERIN (metabolism); MERSALYL (pharmacodynamics); MITOCHONDRIA (drug effects); MITOCHONDRIA (enzymology, metabolism); MITOCHONDRIAL SWELLING (drug effects); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION (drug effects); SACCHAROMYCES CEREVISIAE (drug effects, enzymology, metabolism); SUCCINATE DEHYDROGENASE (metabolism); THIOCARBAMATES (pharmacodynamics); ZIRAM (pharmacodynamics).

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EFFECT OF TRAUMA ON PLASMA GLUCAGON AND INSULIN CONCENTRATIONS IN SHEEP. Brockman RP, Manns JG *Can J Comp Med* 40: 5-8, Jan 76 (Eng) DL/77APR20

ANIMAL; BIOPSY; BLOOD SUGAR (metabolism); GLUCAGON (blood); INSULIN (blood); LIVER; SHEEP (metabolism); STRESS (metabolism, veterinary); TIME FACTORS.

EFFECTS OF GLUCAGON AND INSULIN ON LIPOLYSIS AND KETOGENESIS IN SHEEP. Brockman RP *Can J Comp Med* 40: 166-70, Apr 76 (Eng) DL/77APR21

ACETOACETATES (biosynthesis); ALLOXAN DIABETES (metabolism); ANIMAL; FEMALE; GLUCAGON (administration & dosage, pharmacodynamics); HYDROXYBUTYRATES (biosynthesis); INSULIN (blood, pharmacodynamics); LIPIDS (metabolism); LIVER (metabolism); SHEEP (metabolism).

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THE METABOLIC REFLECTION OF ACUTE PARENTERAL ADMINISTRATION OF VARIOUS SUGARS. I. HEALTHY SUBJECTS. Brodanova M, Brodan V, Kuhn E, Vrana A, Slabochova Z, Grafnetter D *Acta Univ Carol [Med] (Praha)* 21: 53-171, 1975 (Eng) \*DL/77APR726

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BLOOD SUGAR; FRUCTOSE (administration & dosage, metabolism); GLUCOSE (administration & dosage); HUMAN; INJECTIONS; SORBITOL.

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(administration & dosage, metabolism); XYLITOL (administration & dosage, metabolism).

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DIURNAL RHYTHM; ESTRADIOL (blood, urine); ESTROGENS (blood, metabolism, urine); FEMALE; FETAL DISEASES (diagnosis); FETUS (metabolism, physiology); HUMAN; LABOR; MATERNAL-FETAL EXCHANGE; PLACENTA (physiology); PREGNANCY COMPLICATIONS (metabolism); PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY; PRENATAL DIAGNOSIS; REVIEW; RISK.

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RESPONSE OF GASTRIC INHIBITORY POLYPEPTIDE (GIP) TO TEST MEAL IN CHRONIC PANCREATITIS-RELATIONSHIP TO ENDOCRINE AND EXOCRINE INSUFFICIENCY. Ebert R, Creutzfeldt W, Brown JC, Frerichs H, Arnold R *Diabetologia* 12: 609-12, Dec 76 (Eng) DL/77APR100

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MYELIN BASIC PROTEIN: A SUBSTANCE THAT RELEASES IMMUNOREACTIVE GROWTH HORMONE IN VITRO. Villarreal JA, Vale W, Brown M, Butcher M, Brazeau P, Rivier C, Burgess R *Biochem Biophys Res Commun* 70: 551-8, 17 May 76 (Eng) \*DL/77APR750

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ACUTE (complications, therapy); LIVER CIRRHOSIS (complications, therapy); MALE; POISONING (complications, therapy); POSTOPERATIVE CARE; PREGNANCY; SHOCK (complications, therapy).

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CENTRIFUGATION (instrumentation, methods);  
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(analysis); EXTRACELLULAR SPACE  
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TO ENDOCRINOLOGIC AND DEVELOP-  
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TRIC PATIENTS DURING A 4-DAY-LONG  
POSTOPERATIVE COMPLETE  
PARENTERAL FEEDING WITH AMINO  
ACIDS AND A GLUCOSE-LEVULOSE-

XYLITOL COMBINATION SOLUTION] Peter  
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Mast D, Schmidt R, Schmitz ER *Z Ernahrung-*  
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BEHAVIOR OF PLASMA ACTH AND SO-  
MATOTROPIN DURING HYPOGLYCEMIA  
DUE TO INSULIN IN SUBJECTS AFFECTED  
BY CONGENITAL ADRENOGENITAL SYN-  
DROME] Cacciari E, Cicognani A, Pirazzoli P,  
Tassoni P, Salardi S, Bernardi F, Zappulla F,  
Mazzanti L *Minerva Pediatr* 28: 1545-8, 4 Aug  
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ADRENOGENITAL SYNDROME (blood,  
diagnosis); BLOOD SUGAR (analysis); CHILD;  
CORTICOTROPIN (blood); ENGLISH  
ABSTRACT; FEMALE; HUMAN; INFANT;  
INFANT, NEWBORN; INSULIN (diagnostic use);  
MALE; SOMATOTROPIN (blood).

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CURRENT PROBLEMS IN THE PHAR-  
MACOTHERAPY OF VASCULAR DISEASES]  
Cahn J *Minerva Med* 67: 1621-7, 19 May 76  
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ANIMAL EXPERIMENTS (analysis); BLOOD  
SUGAR (metabolism); BRAIN (metabolism,  
physiology); CEREBROVASCULAR  
CIRCULATION (drug effects); DOGS;  
LACTATES (metabolism); OXYGEN  
CONSUMPTION (drug effects); VASCULAR  
DISEASES (drug therapy); VASODILATOR  
AGENTS (pharmacodynamics, therapeutic use);  
VENOUS PRESSURE (drug effects).

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BIRTHWEIGHT INFANT. Salmon D, Fernan-  
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EFFECT OF PREGNANCY ON SERUM  
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ADMINISTRATION, ORAL; ANIMAL;  
ANIMALS, NEWBORN; BLOOD SUGAR  
(analysis); DIABETES MELLITUS (chemically  
induced, metabolism); FASTING; GLUCOSE  
(administration & dosage); GLUTAMATES  
(pharmacodynamics); HYPOTHALAMUS (drug  
effects); INJECTIONS, INTRAPERITONEAL;  
INSULIN (blood); MICE; MICE, OBESE;  
SODIUM GLUTAMATE (pharmacodynamics).

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FOLLOWING TOTAL PANCREATCTOMY  
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STUDIES ON THE RISK FACTORS OF AR-  
TERIOSCLEROSIS IN A HEALTH DISTRICT  
REGION OF LOMBARDY] Vergani C, Minozzi  
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GC, Colombo F, Corbetta E *Minerva Med* 67:  
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AGED; BLOOD SUGAR (analysis);  
CARBOHYDRATES (metabolism);  
CLOFIBRATE (pharmacodynamics); DIABETES  
MELLITUS (metabolism); ENGLISH  
ABSTRACT; FEMALE; HUMAN; INSULIN  
(blood); MALE.

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ARTERIAL CONCENTRATION AND FOREARM  
EXTRACTION OF GLUCOSE AND INSULIN  
DURING THE EARLY PHASE OF A GLU-  
COSE INFUSION. Riccardi G, Heaf D, Kaijser  
L, Eklund B, Carlson LA *Diabetologia* 12: 589-  
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THE PLASMA MEMBRANE OF HUMAN  
PLACENTA. ISOLATION OF MICROVILLUS  
MEMBRANE AND CHARACTERIZATION OF  
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CELL FRACTIONATION; CELL MEMBRANE  
(analysis, ultrastructure); CENTRIFUGATION,  
DENSITY GRADIENT; CENTRIFUGATION,  
ZONAL; FEMALE; GLYCOPROTEINS  
(analysis); HUMAN; PLACENTA (analysis);  
PREGNANCY; PROTEINS (analysis);  
ULTRACENTRIFUGATION; UNITED STATES  
GOVERNMENT SUPPORTED, N.I.H. ;  
UNITED STATES GOVERNMENT  
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DISORDERS] Leutenegger M, Touche M, Caron  
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ING LIPOLYSIS. Carpentier J, Perrelet A, Orci  
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ADIPOSE TISSUE (metabolism, ultrastructure);  
ANIMAL; BODY WEIGHT; CELL MEMBRANE  
(ultrastructure); DIABETES MELLITUS  
(chemically induced); FASTING; FREEZE  
FRACTURING; LIPIDS (metabolism); MALE;  
RATS; STREPTOZOTOCIN.



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**HYPERGLYCEMIC EFFECT OF NEUROTE-  
SIN, A HYPOTHALAMIC PEPTIDE.** Carraway  
RE, Demers LM, Leeman SE *Endocrinology* 99:  
1452-62, Dec 76 (Eng) DL/77APR52  
**ADRENAL GLANDS (physiology); ANIMAL;  
BLOOD SUGAR (metabolism); DIABETES  
INSIPIDUS (physiopathology); DOSE-RESPONSE  
RELATIONSHIP, DRUG; GLUCAGON  
(pharmacodynamics); GLYCOGEN  
PHOSPHORYLASE (metabolism); GLYCOGEN  
SYNTHETASE (metabolism); HEMATOCRIT;  
HYPOTHALAMUS; LIVER GLYCOGEN  
(metabolism); LIVER (drug effects); LIVER  
(enzymology); PEPTIDES (pharmacodynamics);  
PITUITARY GLAND (physiology); RATS;  
UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. )**

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CONSERVATION IN SARCOPLASMIC  
RETICULUM MEMBRANE.** da Gloria M, Car-  
valho C, de Souza DG, de Meis L *J Biol Chem*  
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**PROCEEDINGS: INTRACELLULAR RESPON-  
SES TO GASTROINTESTINAL HORMONES.**  
Case RM *J Endocrinol* 70: 10p-11p, Jul 76 (Eng)  
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**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE  
(physiology); ANIMAL EXPERIMENTS  
(analysis); CALCIUM (physiology);  
GASTROINTESTINAL HORMONES  
(physiology); MUSCLE, SMOOTH (physiology);  
PANCREAS (enzymology, secretion).**

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**[ACIDO-KETOTIC COMA WITH DIABETES IN-  
SIPIDUS OF FATAL OUTCOME CAUSED BY  
CEREBRAL EDEMA] Menage JJ, Caseneve C,  
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**EFFECT OF PHLORETIN ON THE PERMEA-  
BILITY OF THIN LIPID MEMBRANES.** Ander-  
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**AMNIOTIC FLUID GLUCOSE IN PREGNAN-  
CIES COMPLICATED BY DIABETES.** Cassady  
G, Blake M, Bailey P, Younger B, Summers J *Am  
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**AMNIOCENTESIS; AMNIOTIC FLUID  
(analysis); FEMALE; FETAL DEATH (diagnosis);  
FETAL DISEASES (diagnosis); GLUCOSE  
(analysis); HUMAN; HYPOGLYCEMIA  
(congenital); INFANT, NEWBORN; OSMOLAR  
CONCENTRATION; PREGNANCY IN  
DIABETES (metabolism); PREGNANCY; TIME  
FACTORS; UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. ); UNITED STATES  
GOVERNMENT SUPPORTED, NON-N.I.H. )**

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**PHYSICIAN MANAGEMENT IN PRIMARY  
CARE.** Huika BS, Kupper LL, Cassel JC *Am J  
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CAUSED BY CHLORPROPAMIDE AND  
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**ADULT; AGED; CARBAMAZEPINE (adverse  
effects, therapeutic use); CASE REPORT;  
CHLORPROPAMIDE (adverse effects,  
therapeutic use); FEMALE; HUMAN;  
HYPONATREMIA (chemically induced);  
MIDDLE AGE.**

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**DEFECTIVE TRIGLYCERIDE REMOVAL IN  
LIPEMIA ASSOCIATED WITH PERITONEAL  
DIALYSIS AND HAEMODIALYSIS.** Cattran  
DC, Fenton SS, Wilson DR, Steiner G *Ann Intern  
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**ADULT; CHOLESTEROL (blood);  
CHOLESTEROL, DIETARY; DIETARY  
CARBOHYDRATES; DIETARY FATS;  
DIETARY PROTEINS; FEMALE;  
HEMODIALYSIS (adverse effects);  
HEMODIALYSIS, HOME; HUMAN;  
HYPERLIPEMIA (etiology); KIDNEY FAILURE,  
CHRONIC (complications, therapy);  
LIPOPROTEINS (blood); MALE; MIDDLE AGE;  
PERITONEAL DIALYSIS (adverse effects);  
TRIGLYCERIDES (blood, metabolism).**

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**EFFECT OF CHRONIC CLOFIBRATE AD-  
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FATTY ACID OXIDATION.** Cederbaum AI,  
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**ADENOSINE TRIPHOSPHATASE (metabolism);  
ADENOSINE TRIPHOSPHATE (metabolism);  
ANIMAL EXPERIMENTS (analysis); CALCIUM  
(metabolism); CARBON DIOXIDE (metabolism);  
CLOFIBRATE (pharmacodynamics); FATTY  
ACIDS (metabolism); IN VITRO; MALE;  
MITOCHONDRIA, LIVER (drug effects,  
metabolism); MITOCHONDRIA, MUSCLE (drug  
effects, metabolism); OXIDATION-REDUCTION;  
OXYGEN CONSUMPTION (drug effects); RATS;  
UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. )**

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**[INDUCED INHIBITION OF PANCREATIC EX-  
OCRINE SECRETION THROUGH IN-  
TRAVENOUS PERFUSION OF GLUCAGON]**  
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RESPONSES TO GLUCOSE IN PANCREATIC  
ISLETS OF DIABETIC CHINESE HAMSTERS.**  
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**POLY-HORMONAL EVALUATION OF PUL-  
SATILE ADENOHYPOPHYSIS SECRETORY  
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PERIMENTAL AND PATHOLOGIC CONDI-  
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WITH A BETA BLOCKADER]** Wechsler B,  
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**[STUDIES ON THE RISK FACTORS OF AR-  
TERIOSCLEROSIS IN A HEALTH DISTRICT  
REGION OF LOMBARDY]** Vergani C, Minz-  
A, Pozzi G, Cappelletti M, Dell'Orto C, Cesana  
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MENT OF THE TOOTH GERM IN MICE]**  
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**CASE REPORT; CHILD; DIABETES MELLITUS,  
JUVENILE (blood, complications, urine);  
FEMALE; HUMAN; HYPOTHYROIDISM  
(blood, etiology, urine); THYROTROPIN  
(deficiency); 17-  
HYDROXYCORTICOSTEROIDS (urine).**

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GLUCOSE ACTION ON INSULIN AND GLU-  
CAGON SECRETION]** Loubatieres-Marie  
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**ANIMAL; ANTIDEPRESSIVE AGENTS,  
TRICYCLIC (pharmacodynamics);  
CATECHOLAMINES (pharmacodynamics);  
CEREBRAL CORTEX (enzymology);  
CHELATING AGENTS (pharmacodynamics);  
ENZYME ACTIVATION (drug effects);  
GUANOSINE CYCLIC 3,5 MONOPHOSPHATE  
(metabolism); GUINEA PIGS; IMIDAZOLES  
(pharmacodynamics); INSULIN  
(pharmacodynamics); KINETICS;  
NUCLEOTIDES, CYCLIC (pharmacodynamics);  
ORGAN SPECIFICITY; PAPAVERINE  
(pharmacodynamics); PHOSPHODIESTERASES  
(metabolism); PYRAZOLES  
(pharmacodynamics); PYRIDINES  
(pharmacodynamics); QUINAZOLINES  
(pharmacodynamics); REVIEW; SPECIES  
SPECIFICITY; SULFONYLUREA  
COMPOUNDS (pharmacodynamics);  
XANTHINES (pharmacodynamics); 3,5-CYCLIC  
AMP PHOSPHODIESTERASE (metabolism).**

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EFFECT OF 24 HOUR FAST IN OBESE CHILDREN. Choussain JL, Georges P, Olive G, Job JC *Biomedicine [Express]* 25: 299-302, 30 Sep 76 (Eng) DL/77APR9

ADOLESCENCE; ALANINE (blood); BLOOD SUGAR (metabolism); CHILD; FASTING; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (pharmacodynamics); HUMAN; INSULIN (blood); ISOLEUCINE (blood); KETONE BODIES (urine); LEUCINE (blood); MALE; OBESITY (metabolism); SOMATOTROPIN (blood); VALINE (blood).

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ANIMAL EXPERIMENTS (analysis); BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE; CITRATES (metabolism); CYTOSOL (metabolism); GLYCOLYSIS; KINETICS; MALATES (metabolism, pharmacodynamics); MITOCHONDRIA, MUSCLE (drug effects, metabolism); MYOCARDIUM (metabolism); RATS.

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ELECTROENCEPHALOGRAPHIC INDICES OF THE FUNCTIONAL STATE OF THE CENTRAL NERVOUS SYSTEM IN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Smurova TF, Chelnokova NV *Probl Tserk* 42-5, 1976 (Rus) DL/77APR264

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## ADENOSINE TRIPHOSPHATE

(pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CHROMATOGRAPHY, DEAE-CELLULOSE; CHROMATOGRAPHY, GEL;

## HYDROGEN-ION CONCENTRATION

(physiology); LENS, CRYSTALLINE (enzymology); PHOSPHOFRUCTOKINASE (isolation & purification, metabolism); RATS; SULFATES (pharmacodynamics); TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

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STIMULATING AND INHIBITING EFFECTS OF THYROTROPIN-RELEASING HORMONE ON GROWTH HORMONE RELEASE IN RATS. Chihara K, Kato Y, Ohgo S, Iwasaki Y, Abe H, Maeda K, Imura H *Endocrinology* 98: 1047-53, Apr 76 (Eng) \*DL/77APR504

ANIMAL EXPERIMENTS (analysis); CHLORPROMAZINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG ; INJECTIONS, INTRAVENOUS; INJECTIONS, INTRAVENTRICULAR; MALE; RATS; SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (administration & dosage, pharmacodynamics); TIME FACTORS.

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ANIMAL EXPERIMENTS (analysis); HYPERTHYROIDISM (physiopathology); HYPOTHYROIDISM (physiopathology); MALE; RATS; SOMATOTROPIN (secretion); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (secretion).

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HUMAN; HYPOCALCEMIA; HYPOGLYCEMIA; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology); JAUNDICE, NEONATAL; METABOLIC DISEASES.

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[EXPERIENCE WITH A NEW FORM OF OBESITY MANAGEMENT IN JUVENILE HEALTH CARE] Dehler O *Aerztz Jugendkld* 66: 328-1, Nov 75 (Ger) \*DL/77APR723

ADOLESCENCE; AGE FACTORS; BODY HEIGHT; BODY WEIGHT; CHILD HEALTH SERVICES; CHILD; FEMALE; GERMANY, EAST; HUMAN; MALE; METHODS, OBESITY (diet therapy, familial & genetic); STATE MEDICINE.

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AGED; CASE REPORT; DIAGNOSIS, DIFFERENTIAL; FEMALE; HUMAN; ISLET CELL TUMOR (diagnosis, pathology, surgery);

PANCREATIC CYST (complications, diagnosis);  
PANCREATIC NEOPLASMS (diagnosis,  
pathology, surgery).

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INHIBITORY POLYPEPTIDE (physiology);  
GASTRIN (physiology); GASTROINTESTINAL  
HORMONES (physiology);  
GASTROINTESTINAL SYSTEM (metabolism);  
GLUCAGON (physiology); HUMAN; MOTILIN  
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## Denton RM

INCORPORATION OF 32PI INTO PYRUVATE  
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MITOCHONDRIA FROM CONTROL AND IN-  
SULIN-TREATED ADIPOSE TISSUE. Hughes  
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ACUTE EFFECTS IN VIVO OF ANTI-INSULIN  
SERUM ON RATES OF FATTY ACID  
SYNTHESIS AND ACTIVITIES OF ACETYL-  
COENZYME A CARBOXYLASE AND PYR-  
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EPIDIDYMAL ADIPOSE TISSUE OF FED  
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ADIPOSE TISSUE (cytology, embryology,  
ultrastructure); ANIMAL EXPERIMENTS  
(analysis); BLOOD VESSELS; FETUS (cytology);  
MONOGRAPH (mortality); RATS; SWINE.

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Detwiler TC, Martin BM, Feinman RD *Ciba  
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A-23187 (pharmacodynamics); ADENOSINE  
CYCLIC 3,5 MONOPHOSPHATE  
(pharmacodynamics); ADENOSINE  
TRIPHOSPHATE (metabolism); BLOOD  
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ultrastructure); CALCIUM (metabolism);  
CYTOCHALASIN B (pharmacodynamics);

ENERGY METABOLISM (drug effects);  
GLYCOGEN PHOSPHORYLASE (metabolism);  
HUMAN; HYDROGEN-ION CONCENTRATION  
(physiology); IN VITRO; KINETICS;  
MICROTUBULES (metabolism); MODELS,  
CHEMICAL; PROSTAGLANDINS  
(pharmacodynamics); RECEPTORS, DRUG;  
STRUCTURE-ACTIVITY RELATIONSHIP;  
THROMBIN (metabolism); UNITED STATES  
GOVERNMENT SUPPORTED, N.I.H. ).

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POSSIBLE RELATIONSHIP BETWEEN MEM-  
BRANE PROTEINS AND PHOSPHOLIPID  
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ANIMAL EXPERIMENTS (analysis);  
ASPARTATE AMINOTRANSFERASE  
(metabolism); CARBOHYDRATES (metabolism);  
COMPARATIVE STUDY; FEMALE;  
GLUCOSEPHOSPHATE DEHYDROGENASE  
(metabolism); HUMAN; LIPIDS (metabolism);  
MALATE DEHYDROGENASE (metabolism);  
PHOSPHOENOLPYRUVATE  
CARBOXYKINASES (metabolism);  
PHOSPHOGLUCONATE DEHYDROGENASE  
(metabolism); PLACENTA (enzymology,  
metabolism); PREGNANCY TOXEMIAS  
(metabolism); PYRUVATE KINASE  
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CELLS: ENHANCED RESPONSE OF LARGER  
ADIPOCYTES FROM OLDER RATS TO  
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TICOTROPIN. DiGirolamo M, Owens JL *Horm  
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ADIPOSE TISSUE (cytology, metabolism);  
ANIMAL; CARBON DIOXIDE (biosynthesis);  
CORTICOTROPIN (pharmacodynamics); DOSE-  
RESPONSE RELATIONSHIP, DRUG;  
EPINEPHRINE (pharmacodynamics); FATTY  
ACIDS, NONESTERIFIED (metabolism);  
GLUCOSE (metabolism, pharmacodynamics);  
GLYCERIDES (metabolism); INSULIN  
(pharmacodynamics); MALE; RATS; UNITED  
STATES GOVERNMENT SUPPORTED, N.I.H. ).

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MAMMARY EXPLANTS TAKEN FROM RAB-  
BITS AT DIFFERENT STAGES OF PREGNAN-  
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EFFICACY OF CRYOHYPHOPHYSECTOMY IN  
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EVALUATION OF 54 CASES. DiTullio MV Jr,  
Rand RW *J Neurosurg* 46: 1-11, Jan 77 (Eng)  
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ACROMEGALY (complications, metabolism,  
therapy); ADULT; BLOOD SUGAR  
(metabolism); COMPARATIVE STUDY;  
CRYOGENIC SURGERY (methods); DIABETES  
MELLITUS (complications); FEMALE;  
FOLLOW-UP STUDIES; HUMAN;  
HYPOPHYSECTOMY (methods); MALE;  
MIDDLE AGE; SOMATOTROPIN (blood).

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MEMBRANE POTENTIAL. Diwan JJ, Tedeschi  
H *FERS Lett* 60: 176-9, 1 Dec 75 (Eng)  
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ANIMAL EXPERIMENTS (analysis);  
BIOLOGICAL TRANSPORT, ACTIVE (drug  
effects); MEMBRANE POTENTIALS;  
MITOCHONDRIA, LIVER (metabolism,  
physiology); MODELS, BIOLOGICAL;  
POTASSIUM (metabolism); RATS;  
UNCOUPLING AGENTS (pharmacodynamics);  
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VALSALVA MANOEUVRE AS A TEST OF AU-  
TONOMIC NEUROPATHY IN DIABETES  
MELLITUS. Bhatia SG, Sainani GS, Nayak NJ,  
Diwate PG *J Assoc Physicians India* 24: 89-93,  
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AMINO ACID SEQUENCE; AMPHIBIA  
(physiology); ANIMAL; BIRDS (physiology);

## Dolgina MI

CHEMISTRY; CHOLECYSTOKININ (metabolism, physiology); COMPARATIVE STUDY; DIGESTION; FISHES (physiology); GASTRIN (metabolism, physiology); GASTROINTESTINAL HORMONES (physiology); GLUCAGON (physiology); HUMAN; MAMMALS (physiology); PEPTIDES (pharmacodynamics); REVIEW; SECRETIN (physiology); SPECIES SPECIFICITY.

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[DISORDERS OF BLOOD SUGAR LEVEL IN PATIENTS WITH BURNS DURING THE PERIOD OF SEPTICOTOXEMIA] Raben BA, Dolgina MI *Klin Med (Mosk)* 54: 96-101, Nov 76 (Rus) DL/77APR198

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AMYLASE (metabolism); BLOOD SUGAR (metabolism); CHYMOTRYPSIN (metabolism); HUMAN; INSULIN (secretion); PANCREAS (drug effects, enzymology, physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); TRYPSIN (metabolism).

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AN AUDIT OF THE CARE OF DIABETICS IN A GROUP PRACTICE. Doney BJ *J R Coll Gen Pract* 26: 734-42, Oct 76 (Eng) DL/77APR186  
ADOLESCENCE; ADULT; AGED; CHILD; DIABETES MELLITUS (complications, therapy); DIABETIC RETINOPATHY; FEMALE; GENERAL PRACTICE; GREAT BRITAIN; GROUP PRACTICE; HUMAN; MALE; MEDICAL AUDIT; MIDDLE AGE.

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GLUCONEOGENESIS IN ISOLATED HEPATOCYTES FROM FED AND FORTY-EIGHT-HOUR STARVED RATS. Story DL, Odonnel JA, Dong FM, Freedland RA *Biochem Biophys Res Commun* 73: 799-806, 6 Dec 76 (Eng) DL/77APR412

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EARLY DIAGNOSIS OF RETINOPATHY IN JUVENILE DIABETES BY FLUORESCIN ANGIOGRAPHY. Toussaint D, Quactaert M, Dorchy H, Loeb H *Acta Paediatr Belg* 29: 177-80, Jul-Sep 76 (Eng) DL/77APR363

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ADULT; AGE FACTORS; CHILD; DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS, JUVENILE (familial & genetic); FEMALE; HUMAN; MALE; SEX FACTORS.

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CARBON RADIOISOTOPES; CELL LINE; CHROMATOGRAPHY, THIN LAYER; FATTY ALCOHOLS (metabolism); LIPIDS (metabolism); PALMITIC ACIDS (metabolism); TRITIUM; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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CONCENTRATION AND IN VITRO RELEASE OF PLACENTAL HUMAN CHORIONIC SOMATOMAMMOTROPIN (HCS) IN THE CASE OF FETUSES OF NORMAL WEIGHT AND WITH INTRAUTERINE WEIGHT RETARDATION. Doszpod J, Gaal A, Gati I *Acta Physiol Acad Sci Hung* 45: 63-8, 1974 (Eng) \*DL/77APR715

BIRTH WEIGHT; FEMALE; HUMAN; ORGAN WEIGHT; PLACENTA (metabolism); PLACENTAL LACTOGEN (metabolism, secretion); PREGNANCY.

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A METABOLIC AND ELECTRON MICROSCOPIC STUDY OF HUMAN ORGAN-CULTURED CORNEA. Lindstrom RL, Doughman DJ, Van Horn DL, Dancil D, Harris JE *Am J Ophthalmol* 82: 72-82, Jul 76 (Eng) \*DL/77APR730

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ADOLESCENCE; ADULT; CASE REPORT; CELLULOSE (therapeutic use); DIABETES MELLITUS (metabolism); DIABETES MELLITUS, JUVENILE (diet therapy); DIABETIC DIET; DIETARY CARBOHYDRATES (metabolism); DIETARY FIBER (therapeutic use); HUMAN; MALE; MIDDLE AGE.

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[CONTENT OF SULPHATED GLYCOSAMINOGLYCANS IN BLOOD SERUM AND URINARY EXCRETION OF OXYPROLINE IN PATIENTS WITH DIABETES MELLITUS] Dozorets IuL, Okorokov AN, Bobkov V Ia *Vrach Delo* 92-4, Apr 76 (Rus) DL/77APR340

ADOLESCENCE; ADULT; DIABETES MELLITUS (metabolism); GLYCOSAMINOGLYCANS (blood); HUMAN; HYDROXYPROLINE (urine).

### Dron DI

BIOLOGICAL PROPERTIES OF CHEMICALLY MODIFIED INSULINS. I. BIOLOGICAL ACTIVITY OF PROINSULIN AND INSULIN MODIFIED AT AL-GLYCINE AND B29-LYSINE. Jones RH, Dron DI, Ellis MJ, Sonksen PH, Brandenburg D *Diabetologia* 12: 601-8, Dec 76 (Eng) DL/77APR99

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ADULT; CHILD; CORONARY DISEASE (complications); DIABETES MELLITUS (etiology); FEMALE; HUMAN; HYPERGLYCEMIA (complications); HYPERTENSION (etiology, occurrence); MALE; MIDDLE AGE; RISK.

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[EDUCATION AND TRAINING OF THE DIABETIC PATIENT, AN ESSENTIAL FACTOR IN PREVENTING COMPLICATIONS] Dub O *Zdrav Prac* 26: 267-9, May 76 (Cz) DL/77APR353

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; DIABETIC RETINOPATHY (diet therapy, drug therapy, therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; REMISSION; TIME FACTORS.

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ADULT; CHRONIC DISEASE; ENGLISH ABSTRACT; GASTRIC JUICE (analysis); GASTRIC MUCOSA (secretion); HISTAMINE (diagnostic use); HUMAN; INSULIN (diagnostic use); MALE; MIDDLE AGE; PARASYMPATHETIC NERVOUS SYSTEM (physiopathology); PEPTIC ULCER (physiopathology).

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THYROID GLAND (physiopathology);  
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TRIPHOSPHATE (metabolism); AMINO ACIDS  
(metabolism); AMMONIA (metabolism);  
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PHOSPHATES, INORGANIC (metabolism);  
PYRUVATES (metabolism); REVIEW;  
TRICARBOXYLIC ACIDS (metabolism);  
VALINOMYCIN (pharmacodynamics).

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EXPERIMENTS (analysis); CASTRATION;  
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(metabolism); ESTRADIOL (analogs &  
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(pharmacodynamics); ORGAN CULTURE;  
PROSTATE (drug effects, physiology); RATS;

RECEPTORS, HORMONE; REVIEW;  
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STRUCTURE-ACTIVITY RELATIONSHIP;  
TESTOSTERONE 5 ALPHA REDUCTASE  
(metabolism); THYMIDINE (metabolism).

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[CHANGES IN SERUM ELECTROLYTE CONCENTRATION AND ELECTROLYTE EXCRETION INDUCED THROUGH INFUSION OF  
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ELECTROLYTES (metabolism); ENGLISH  
ABSTRACT; FRUCTOSE (administration &  
dosage); GLUCOSE (administration & dosage);  
HUMAN; INFUSIONS, PARENTERAL;  
PHOSPHORUS (blood); POTASSIUM (blood,  
urine); SODIUM (blood, urine); SORBITOL  
(administration & dosage); TIME FACTORS;  
XYLITOL (administration & dosage).

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(pharmacodynamics); ANTIMYCIN A  
(pharmacodynamics); ASCOMYCETES  
(metabolism); BIOLOGICAL TRANSPORT,  
ACTIVE; CELL MEMBRANE (drug effects,  
metabolism); DEOXYADENOSINE  
(pharmacodynamics); DEOXYGLUCOSE  
(metabolism); DIBUTYRYL CYCLIC AMP  
(pharmacodynamics); KINETICS; MONOGRAPH  
(mortality); SCHIZOSACCHAROMYCES (drug  
effects, metabolism).

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ACTIVITY DURING SLEEP IN NORMAL, EXPERIMENTAL AND PATHOLOGIC CONDITIONS. Isidori A, Fraiole F, Rotolo A, Piro C, Conte D, Muratori A, Murri L, Cerone G *Chronobiologia* 3: 39-50, Jan-Mar 76 (Eng)  
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P-AMINOHIPURIC ACID (pharmacodynamics); ANIMAL; BLOOD CHEMICAL ANALYSIS;  
BLOOD PRESSURE; DISEASE MODELS,  
ANIMAL; DOGS; FEMALE; GLOMERULAR  
FILTRATION RATE; INSULIN (metabolism);  
KIDNEY TUBULES (drug effects, metabolism);  
LYMPH (metabolism); PERMEABILITY;  
PLASMA VOLUME; POLYURIA (metabolism);  
POLYVINYLPIRROLIDONE (metabolism);  
URETER (physiology).

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DIABETES MELLITUS (complications);  
ENGLISH ABSTRACT;  
EXTRACHROMOSOMAL INHERITANCE;

FEMALE; GENES, DOMINANT; GENES,  
RECESSIVE; HUMAN; MALE; OPTIC  
ATROPHY (complications, familial & genetic);  
OPTIC NEURITIS (familial & genetic);  
PEDIGREE; SEX CHROMOSOMES.

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(metabolism); CELL MEMBRANE;  
ELECTROCARDIOGRAPHY; FEMALE;  
GLYCERIN (pharmacodynamics); HEART (drug  
effects); MYOCARDIAL CONTRACTION;  
MYOCARDIUM (metabolism); PERFUSION;  
RATS.

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CYCLASE: PROPERTIES OF THE ACTIVATED  
ENZYME IN LIVER PLASMA  
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BACTERIAL TOXINS (pharmacodynamics);  
CELL MEMBRANE (drug effects, enzymology);  
ENZYME ACTIVATION (drug effects);  
EPINEPHRINE (pharmacodynamics);  
FLUORIDES (pharmacodynamics); GLUCAGON  
(pharmacodynamics); GUANOSINE  
TRIPHOSPHATE (pharmacodynamics);  
KINETICS; LIVER (enzymology); MAGNESIUM  
(pharmacodynamics); MALE; MICE;  
PROSTAGLANDINS E (pharmacodynamics);  
VIBRIO CHOLERA E.

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ADOLESCENCE; CHILD; CHILD,  
PRESCHOOL; FEMALE; FSH (blood); HUMAN;  
HYPOGLYCEMIA (physiopathology);  
HYPOPIUITARISM (physiopathology);  
INSULIN (pharmacodynamics); LH (blood); LH-  
FSH RELEASING HORMONE  
(pharmacodynamics); MALE; PROLACTIN  
(blood); SEX FACTORS; SOMATOTROPIN  
(blood, deficiency); THYROTROPIN  
RELEASING HORMONE (pharmacodynamics);  
THYROTROPIN (blood).

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ADIPOSE TISSUE (metabolism); ANIMAL; ENGLISH ABSTRACT; INSULIN (physiology); LIVER (metabolism); MICE; MICE, OBSE; MYOCARDIUM (metabolism); OBESITY (metabolism, physiopathology); RECEPTORS, INSULIN.

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ADULT; CASE REPORT; CHOROID; DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; HUMAN; LIGHT COAGULATION (adverse effects); MALE; PHENYLBUTAZONE (therapeutic use); RETINAL DETACHMENT (complications); UVEAL DISEASES (drug therapy, etiology).

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BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (metabolism); CELL MEMBRANE (drug effects, ultrastructure); FREEZE FRACTURING; GALACTOSE (metabolism); GLUCOSE (metabolism); KINETICS; MAGNESIUM (pharmacodynamics); MICROSCOPY, ELECTRON; MITOCHONDRIA (metabolism); POTASSIUM (metabolism); SACCHAROMYCES CEREVISIAE (drug effects, metabolism); URANIUM (pharmacodynamics).

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ADULT; CHRONIC DISEASE; CORTICOTROPIN (physiology); FSH (physiology); HUMAN; HYDROCORTISONE (physiology); LH (physiology); MALE; MIDDLE AGE; PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology, physiopathology); PITUITARY HORMONES, ANTERIOR (physiology); SCHIZOPHRENIA (physiopathology); SLEEP DISORDERS (physiopathology); SLEEP STAGES; SLEEP (physiology); SOMATOTROPIN (physiology).

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MINATION OF BLOOD SUGAR] Itoh K, Kondoh T, Kojima N, Itoh K, Ikeda S *Jpn J Clin Med* 34: 3073-8, 10 Oct 76 (Jpn) DL/77APR189

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MONKEYS; RATS; REVIEW; SWINE  
(metabolism); UNITED STATES  
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ADENYL CYCLASE (metabolism); ANIMAL  
EXPERIMENTS (analysis); BINDING SITES;  
BINDING, COMPETITIVE; CELL MEMBRANE  
(metabolism); DITHIOREITOL  
(pharmacodynamics); EDTA  
(pharmacodynamics); ENZYME ACTIVATION  
(drug effects); ERYTHROCYTES (metabolism);  
GUANINE NUCLEOTIDES (metabolism,  
pharmacodynamics); GUANOSINE  
TRIPHOSPHATE (pharmacodynamics);  
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[ASSESSMENT OF THE B-CELL FUNCTION IN  
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STIMULATION] Jahnke KA, Reis HE, Jahnke K  
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ADULT; DIABETES MELLITUS (blood);  
DIABETES MELLITUS, JUVENILE (blood);  
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HUMAN; INSULIN (secretion); ISLANDS OF  
LANGERHANS (physiopathology); MIDDLE  
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ANIMAL; FRUCTOSE (pharmacodynamics);  
GLUCAGON (pharmacodynamics); GLUCOSE  
(metabolism); IN VITRO; KINETICS;  
LACTATES (metabolism); LIVER GLYCOGEN  
(metabolism); LIVER (drug effects, metabolism);  
MALE; OXYGEN CONSUMPTION (drug  
effects); PYRUVATES (metabolism); RATS.

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INSULIN (pharmacodynamics); RECEPTORS,  
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physiopathology); MALE; MICROSCOPY,  
ELECTRON; MYELIN SHEATH (pathology);  
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DEMYELINATION (pathology); DIABETIC  
NEUROPATHIES (pathology); MYELIN  
SHEATH (pathology); NERVE FIBERS,  
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(pathology); RATS; STREPTOZOTOCIN.

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THE INTRACELLULAR MECHANISM  
RESPONSIBLE FOR DIETARY FEEDBACK  
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HEIGHT; BODY WEIGHT; CARBON DIOXIDE  
(metabolism); CARBON RADIOISOTOPES;  
DIETARY PROTEINS, HUMAN; MALE;  
MIDDLE AGE; MODELS, BIOLOGICAL;  
OXYGEN CONSUMPTION; POTASSIUM  
(metabolism); PROTEINS (metabolism);  
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ADMINISTRATION, ORAL; ANIMAL; BLOOD  
SUGAR (analysis); GLUCOSE (administration &  
dosage); INFUSIONS, PARENTERAL; INSULIN  
(secretion); PANCREAS (innervation,  
transplantation); SWINE; TRANSPLANTATION,  
ALLOGENEIC.

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ADULT; ANOREXIA (physiopathology); BODY  
TEMPERATURE; CALORIMETRY;  
CALORIMETRY, INDIRECT; COLD; FASTING;  
FEMALE; GLUCOSE (metabolism); HUMAN;  
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PROTEINS (metabolism); SKINFOLD  
THICKNESS.

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AMINO ACIDS IN MAN] PP. 38-43. Pittet P,  
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BLACK PATIENTS WITH DIABETES MEL-  
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**ADMINISTRATION, ORAL; ADULT; AGED; BIODEGRADATION; BLOOD SUGAR (analysis); C-PEPTIDE (blood, metabolism, secretion); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage); HUMAN; HYPERINSULINISM (etiology); INSULIN (blood, metabolism, secretion); ISLANDS OF LANGERHANS (physiopathology); LIVER CIRRHOSIS (blood, physiopathology); LIVER (metabolism); MALE; MIDDLE AGE.**

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**ADIPOSE TISSUE (metabolism); ANIMAL; BLOOD SUGAR (analysis); DOGS; IN VITRO; INSULIN (analogs & derivatives, blood, pharmacodynamics); LIPIDS (biosynthesis); MALE; PROINSULIN (analogs & derivatives, blood, pharmacodynamics); PROTEIN CONFORMATION; RATS; STRUCTURE-ACTIVITY RELATIONSHIP.**

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**[EFFECTS OF HYPOGLYCEMIC AGENTS ON DEVELOPMENT OF THE EYE OF RAT EMBRYOS (AUTHORS TRANSL.)]** Nishi R, Kaito H *Acta Soc Ophthalmol Jpn* 80: 1248-54, Oct 76 (Jpn) DL/77APR368

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**INSULIN, GLUCAGON, AND GLUCOSE EXHIBIT SYNCHRONOUS, SUSTAINED OSCILLATIONS IN FASTING MONKEYS.** Goodner CJ, Walike BC, Koerker DJ, Ensinn JW, Brown AC, Chideckel EW, Palmer J, Kalnasy L *Science* 195: 177-9, 14 Jan 77 (Eng) DL/77APR304

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**AN INSULINOMA WITHOUT FASTING HYPOGLYCEMIA.** Jordan RM, Kammer H *Am J Med Sci* 272: 205-9, Sep-Oct 76 (Eng) DL/77APR376

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**COEXISTENCE OF PRIMARY ENDOCRINE DEFICIENCIES: A UNIQUE CASE OF MALE HYPERGONADISM ASSOCIATED WITH HYPOPARATHYROIDISM, HYPOADRENOCORTICISM, AND HYPOTHYROIDISM.** Weinberg U, Kraemer FB, Kammerman S *Am J Med Sci* 272: 215-20, Sep-Oct 76 (Eng) DL/77APR377

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**PLACENTO-THYROIDAL RELATIONSHIP IN NORMAL PREGNANCY.** Kanazawa S, Nakamura A, Saida K, Tojo S *Acta Obstet Gynecol Scand* 55: 201-5, 1976 (Eng) \*DL/77APR712

**ESTROGENS (urine); FEMALE; HUMAN; PLACENTA (metabolism, physiology); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY; PROTEIN-BOUND IODINE TEST; THYROID GLAND (physiology); THYROID HORMONES (physiology); THYROTROPIN (blood); THYROXINE (blood); THYROXINE-BINDING PROTEIN (physiology); TRIIODOTHYRONINE (blood).**

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**IMMUNOGENICITY OF SINGLE COMPONENT PORT INSULIN.** Kansal PC, Boshell BR *Horm Metab Res* 8: 439-42, Nov 76 (Eng) DL/77APR127

**AGED; ANTIBODY FORMATION; FEMALE; HUMAN; INSULIN (immunology, isolation & purification); MALE; MIDDLE AGE; SWINE.**

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**ISOLATED THYROTROPIN DEFICIENCY IN DIABETES MELLITUS.** Chandra M, Lifshitz F, Fort P, de Rosas FJ, Kantrow A *Acta Endocrinol (Kbh)* 84: 80-6, Jan 77 (Eng) DL/77APR360

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**INCREASED INSULIN BINDING BY HEPATIC PLASMA MEMBRANES FROM DIABETIC RATS: NORMALIZATION BY INSULIN THERAPY.** Davidson MB, Kaplan SA *J Clin Invest* 59: 22-30, Jan 77 (Eng) DL/77APR163

**HYPOGLYCEMIA DURING TESTING FOR GROWTH HORMONE DEFICIENCY.** LaFranchi SH, Lippe BM, Kaplan SA *J Pediatr* 90: 244-5, Feb 77 (Eng) DL/77APR183

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MODIFICATION OF THE REGULATORY PROPERTIES OF PYRUVATE KINASE OF NEUROSPORA BY GROWTH AT ELEVATED TEMPERATURES. Kapoor M, O'Brien M, Braun A. *Can J Biochem* 54: 398-407, May 76 (Eng) \*DL/77APR463

ALLOSTERIC REGULATION; ALLOSTERIC SITE; ENZYME ACTIVATION (drug effects); FRUCTOSEPHOSPHATES (pharmacodynamics); HEXOSEPHOSPHATES (pharmacodynamics); HYDROGEN-ION CONCENTRATION (physiology); KINETICS; NEUROSPORA CRASSA (enzymology); NEUROSPORA (enzymology); PROTEIN BINDING; PROTEIN CONFORMATION; PYRUVATE KINASE (isolation & purification, metabolism); SPECTROMETRY, FLUORESCENCE; TEMPERATURE.

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THE DEGRADATION OF SEMISYNTHETIC TRITIATED INSULIN BY PERFUSED MOUSE LIVERS. Halban PA, Karakash C, Davies JG, Offord RE. *Biochem J* 160: 409-12, 15 Nov 76 (Eng) DL/77APR408

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EFFECT OF INSULIN ON THE DEVELOPMENT OF THE TOOTH GERM IN MICE. Muster D, Ruch JV, Karcher-Djuricic V, Champy M. *Rev Stomatol Chir Maxillofac* 77: 663-71, Jun 76 (Fre) DL/77APR292

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PREDICTIVE FACTORS AND MECHANISM OF ARRHYTHMIAS AND MYOCARDIAL ISCHAEMIC CHANGES IN ELDERLY PATIENTS DURING BARIUM ENEMA. Higgins CB, Roeske WR, Karlner JS, O'Rourke R, Berk RN. *Br J Radiol* 49: 1023-7, Dec 76 (Eng) DL/77APR12

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GLUCOSE, INSULIN AND GLUCAGON IN THE DIABETIC GOOSE. Karmann H, Mialhe P. *Horm Metab Res* 8: 419-26, Nov 76 (Eng) DL/77APR123

ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS (etiology, metabolism); GEESSE (physiology); GLUCAGON (blood); GLUCOSE TOLERANCE TEST; INSULIN (blood); PANCREAS (physiology); PANCREATICTOMY.

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EFFECT OF ACIDOSIS AND NORADRENALINE INFUSION ON I4C-NORADRENALINE UPTAKE BY THE RAT MYOCARDIUM. Karpati P, Preda I, Endroczi E. *Acta Physiol Acad Sci Hung* 45: 109-14, 1974 (Eng) \*DL/77APR714

ACIDOSIS (metabolism); ANIMAL EXPERIMENTS (analysis); CARBON RADIOISOTOPES; HYDROGEN-ION CONCENTRATION (physiology); MALE; MYOCARDIUM (metabolism); NOREPINEPHRINE (metabolism, pharmacodynamics); RATS.

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CLINICAL STUDY OF PROLIFERATIVE DIABETIC RETINOPATHY (AUTHORS TRANSL.) Fukuda M, Tamura T, Abe T, Kasahara T. *Acta Soc Ophthalmol Jpn* 80: 1514-25, 10 Nov 76 (Jpn) DL/77APR371

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ADIPOSE TISSUE (drug effects, metabolism); CLOFIBRATE (pharmacodynamics); HUMAN; LIPID MOBILIZATION (drug effects); LIPIDS (metabolism).

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STIMULATING AND INHIBITING EFFECTS OF THYROTROPIN-RELEASING HORMONE ON GROWTH HORMONE RELEASE IN RATS. Chihara K, Kato Y, Ohgo S, Iwasaki Y, Abe H, Maeda K, Imura H. *Endocrinology* 98: 1047-53, Apr 76 (Eng) \*DL/77APR504

EFFECTS OF HYPERTHYROIDISM AND HYPOTHYROIDISM ON RAT GROWTH HORMONE RELEASE INDUCED BY THYROTROPIN-RELEASING HORMONE. Chihara K, Kato Y, Ohgo S, Iwasaki Y, Maeda K. *Endocrinology* 98: 1396-400, Jun 76 (Eng) \*DL/77APR506

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ADOLESCENCE; ADULT; AGE FACTORS; BLOOD DONORS; BODY HEIGHT; BODY WEIGHT; CHOLESTEROL (blood); COLORIMETRY; ENGLISH ABSTRACT; ENZYME TESTS; FEMALE; HUMAN; MALE; MIDDLE AGE; SEX FACTORS; TRIGLYCERIDES (blood).

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QUANTITATION OF HUMAN PANCREATIC BETA-CELL FUNCTION BY IMMUNOASSAY OF C-PEPTIDE IN URINE. Horwitz DL, Rubenstein AH, Katz AI. *Diabetes* 26: 30-5, Jan 77 (Eng) DL/77APR85

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EFFECT OF PHLORETIN ON THE PERMEABILITY OF THIN LIPID MEMBRANES. Andersen OS, Finkelstein A, Katz I, Cass A. *J Gen Physiol* 67: 749-71, Jun 76 (Eng) \*DL/77APR624

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PHYSICAL CHEMISTRY OF THE LIPIDS OF HUMAN ATHEROSCLEROTIC LESIONS. DEMONSTRATION OF A LESION INTERMEDIATE BETWEEN FATTY STREAKS AND ADVANCED PLAQUES. Katz SS, Shipley GG, Small DM. *J Clin Invest* 58: 200-11, Jul 76 (Eng) \*DL/77APR567

ADULT; AGED; ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism, pathology); CHEMISTRY, PHYSICAL; CHOLESTEROL ESTERS (analysis); CHOLESTEROL (analysis); CHROMATOGRAPHY, GAS; CHROMATOGRAPHY, LIQUID; CHROMATOGRAPHY, THIN LAYER; COMPARATIVE STUDY; FATTY STREAK, ARTERIAL (metabolism); FEMALE; HUMAN; LIPIDS (analysis); MALE; MICROCHEMISTRY; MICROSCOPY, POLARIZATION; MIDDLE AGE; NECROSIS; PHOSPHOLIPIDS (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; X-RAY DIFFRACTION.

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[A CLINICAL AND PSYCHOPHYSIOLOGICAL STUDY OF DEPRESSION IN INTERNAL MEDICINE. Nakagawa T, Kawano T, Nagato H, Kimura M, Takayama T. *Psychosomatics* 17: 173-9, 1976 (Eng) DL/77APR274

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BODY FAT: ITS RELATIONSHIP TO CORONARY HEART DISEASE, BLOOD PRESSURE, LIPIDS AND OTHER RISK FACTORS MEASURED IN A LARGE MALE POPULATION. Weinsier RL, Fuchs RJ, Kay TD, Triebwasser JH, Lancaster MC. *Am J Med* 61: 815-24, Dec 76 (Eng) DL/77APR375

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EFFECT OF GAMMA IRRADIATION ON THE PRODUCTION AND DEGRADATION SYSTEM OF THE SECOND HORMONAL MESSENGER (AUTHORS TRANSL.) Tine J, Kergonou JF, Rocquet G. *Ann Endocrinol (Paris)* 37: 121-2, Mar-Apr 76 (Fre) DL/77APR394

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PREVALENCE OF HEPATITIS B SURFACE ANTIGEN AND ANTIBODY IN WHITE AND BLACK PATIENTS WITH DIABETES MELLITUS. Kew MC, MacKay ME, Mindel A, Joffe BI, Kusman B, MacNab GM, Seftel HC. *J Clin Microbiol* 4: 467-9, Dec 76 (Eng) DL/77APR162

ADOLESCENCE; ADULT; AGED; ANTIBODIES, VIRAL (analysis); BLACKS; CAUCASIAN RACE; COMPARATIVE STUDY; DIABETES MELLITUS (immunology, therapy); DIET THERAPY; FEMALE; HEPATITIS B SURFACE ANTIGEN (analysis); HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; SOUTH AFRICA (ethnology).

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GLUCOSE AND INSULIN METABOLISM IN FRIEDREICH'S ATAXIA. Shapcott D, Melancon S, Butterworth RF, Khoury K, Collu R, Breton G, Geoffroy G, Lemieux B, Barbeau A. *Can J Neurol Sci* 3: 361-4, Nov 76 (Eng) DL/77APR24

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PIG RETICULOCYTES: I. TRANSITORY GLUCOSE PERMEABILITY AND METABOLISM. Kim HD, Luthra MG. *Am J Physiol* 230: 1668-75, Jun 76 (Eng) \*DL/77APR732

ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE PERMEABILITY (drug effects); CHLOROMERCURIPHENYLSULFONATE (pharmacodynamics); DIHYDROXYACETONE (metabolism); DITHIONITROBENZOIDIC ACID (pharmacodynamics); GLUCOSE (metabolism); KINETICS; LACTATES (metabolism); METHYLGLUCOSIDES (metabolism);

## Kimura K

PHLORETIN (pharmacodynamics); RETICULOCYTES (metabolism); RIBOSE (metabolism); SWINE (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; URETHANE (pharmacodynamics).

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IMPORTANCE OF MEMBRANE FLUIDITY IN THE INDUCTION OF ALKALINE PHOSPHATASE, A PERIPLASMIC ENZYME, IN *ESCHERICHIA COLI*. Kimura K, Izui K. *Biochem Biophys Res Commun* 70: 900-6, 7 Jun 76 (Eng) \*DL/77APR752

ALKALINE PHOSPHATASE (biosynthesis, metabolism); CELL MEMBRANE (physiology, ultrastructure); ENZYME INDUCTION (drug effects); *ESCHERICHIA COLI* (enzymology, physiology, ultrastructure); FATTY ACIDS, UNSATURATED (pharmacodynamics); GALACTOSIDASES (biosynthesis); KINETICS; OLEIC ACIDS (pharmacodynamics); TEMPERATURE; THERMODYNAMICS; TIME FACTORS.

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[A CLINICAL AND PSYCHOPHYSIOLOGICAL STUDY OF DEPRESSION IN INTERNAL MEDICINE. Nakagawa T, Kawano T, Nagato H, Kimura M, Takayama T. *Psychosomatics* 17: 173-9, 1976 (Eng) DL/77APR274

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REGULATION OF AVIAN INSULIN SECRETION BY ISOLATED PERFUSED CHICKEN PANCREAS. King DL, Hazelwood RL. *Am J Physiol* 183:9-231 (Eng) DL/77APR381

ANIMAL; CHICKENS (physiology); FEMALE; GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (secretion); MAGNESIUM (physiology); PANCREAS (drug effects, secretion); PERFUSION; TOLBUTAMIDE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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OFFICE EMERGENCIES: AN OUTLINE OF CAUSES, SYMPTOMS, AND TREATMENT. Freeman NS, King RA, Plezia RA, Shearer HT. *J Am Dent Assoc* 94: 91-6, Jan 77 (Eng) DL/77APR165

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HORMONAL REGULATION OF FETAL BRAIN CELL PROLIFERATION: PRESENCE IN SERUM OF A TROPHIN RESPONSIVE TO PITUITARY GROWTH HORMONE STIMULATION. Sara VR, King TL, Stuart MC, Lazarus L. *Endocrinology* 99: 1512-8, Dec 76 (Eng) DL/77APR54

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REGULATION OF CALCIUM TRANSPORT BY CYCLIC AMP. A PROPOSED MECHANISM FOR THE BETA-ADRENERGIC CONTROL OF MYOCARDIAL CONTRACTILITY. Tada M, Kirchberger MA. *Acta Cardiol (Brux)* 30: 231-7, 1975 (Eng) \*DL/77APR705

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SALIVARY GLAND HYPERGLYCEMIC FACTOR: AN EXTRAPANCREATIC SOURCE OF

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GLUCAGON-LIKE MATERIAL. Lawrence AM, Tan S, Hovjat S, Kirsteins L. *Science* 195: 70-2, 7 Jan 77 (Eng) DL/77APR303

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ROLE OF INSULIN RESISTANCE IN ADIPOSE TISSUE AND LIVER IN THE PATHOGENESIS OF ENDOGENOUS HYPERTRIGLYCERIDAEMIA IN MAN. Kissebah AH, Alfarsi S, Adams PW, Wynn V. *Diabetologia* 12: 563-71, Dec 76 (Eng) DL/77APR94

ADIPOSE TISSUE (metabolism); ADULT; AGED; APOLIPOPROTEINS (blood); DIABETES MELLITUS (metabolism); FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYPERINSULINISM; HYPERLIPIDEMIA (metabolism); INSULIN RESISTANCE; LIPODYSTROPHY (metabolism); LIPOPROTEINS, VLDL (blood); LIVER (metabolism); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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[PRIMARY HYPERPARATHYROIDISM. AN ANALYSIS OF 152 PATIENTS WITH SPECIAL REFERENCES TO ACUTE LIFE THREATENING COMPLICATIONS (ACUTE HYPERPARATHYROIDISM)] Kistler H. *Schweiz Med Wochenschr* 106 suppl 3: 1-61, 1976 (Ger) [242] DL/77APR300

ACUTE DISEASE; ADENOMA (surgery); ADOLESCENCE; ADULT; AGED; ALKALINE PHOSPHATASE (metabolism); BONE AND BONES; CALCIUM (metabolism); CASE REPORT; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERCALCEMIA (etiology); HYPERPARATHYROIDISM (complications); HYPERTENSION (etiology); KIDNEY DISEASES (etiology); MALE; MEDIASTINAL NEOPLASMS (complications); MIDDLE AGE; PAIN (etiology); PANCREATITIS (complications); PARATHYROID GLANDS (pathology); PHOSPHATES (blood); PREDNISONE (diagnostic use); REVIEW.

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THE INSULIN-LIKE EFFECTS OF A GLUCOSE METABOLITE (BIS-PEP) FROM MUSCLE AND ERYTHROCYTES. Kits van Heijningen AJ, Rath E, Treijtel B, Visser N, Wientjes C, Belloff-Chain A. *FEBS Lett* 72: 58-62, 15 Dec 76 (Eng) DL/77APR66

ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BLOOD SUGAR (metabolism); CATTLE; DIAPHRAGM (drug effects, metabolism); ERYTHROCYTES (drug effects, metabolism); FATTY ACIDS (biosynthesis); FEMALE; GLUCOSE (metabolism); GLYCOGEN (metabolism); INSULIN; MALE; MICE; PHOSPHOENOLPYRUVATE (pharmacodynamics); RATS.

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SOMATOSTATIN CONTENT OF THE HYPOTHALAMIC VENTROMEDIAL AND ARCuate NUCLEI AND THE CIRCUMVENTRICULAR ORGANS IN THE RAT. Palkovits M, Brownstein MJ, Arimura A, Sato H, Schally V, Kizer JS. *Brain Res* 109: 430-4, 11 Jun 76 (Eng) \*DL/77APR458

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TRANSPORT OF NUTRIENTS AND NON-NUTRIENTS ACROSS THE BLOOD-BRAIN BARRIER IN PATHOLOGICAL CONDI-

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POST-ISCHEMIC CHANGES IN CERTAIN METABOLITES FOLLOWING PROLONGED ISCHEMIA IN THE GERBIL CEREBRAL CORTEX. Mrsulja BB, Lust WD, Mrsulja BJ, Passonneau JV, Klatzo I. *J Neurochem* 26: 1099-103, Jan 76 (Eng) \*DL/77APR625

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LOW CONCENTRATION OF PLASMA AMINO ACIDS IN NEWBORN BABIES OF DIABETIC MOTHERS. Vejtorp M, Pedersen J, Klebbe JG, Lund E. *Acta Paediatr Scand* 66: 53-8, Jan 77 (Eng) DL/77APR364

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BLOOD PRESSURE; FATTY ACIDS (metabolism); GLUCOSE (metabolism); HEART RATE; HUMAN; MYOCARDIUM (metabolism); NICOTINE (metabolism); OXYGEN CONSUMPTION; SMOKING; TIME FACTORS; TRIGLYCERIDES (blood).

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INDUCTION AND DECAY OF GLUCAGON-INDUCED AMINO ACID TRANSPORT IN PRIMARY CULTURES OF ADULT RAT LIVER CELLS: PARADOXICAL EFFECTS OF CYCLOHEXIMIDE AND PUROMYCIN. Pariza MW, Butcher FR, Kletzien RF, Becker JE, Potter VR. *Proc Natl Acad Sci USA* 73: 4511-5, Dec 76 (Eng) DL/77APR267

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A MODEL OF GRADED ISCHEMIA IN THE ISOLATED PERFUSED RAT HEART. Kligfield P, Horner H, Brachfeld N. *J Appl Physiol* 40: 1004-8, Jun 76 (Eng) \*DL/77APR550

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; CORONARY DISEASE (metabolism, physiopathology); DISEASE MODELS, ANIMAL; GLUCOSE (metabolism); GLYCOGEN (metabolism); HEMODYNAMICS; IN VITRO; LACTATES (metabolism); MALE; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PHOSPHOCREATINE (metabolism); RATS.

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VASCULAR LIVER NODULES CAUSED BY AN ISLET CELL TUMOR. Snyder HL, Klipstein AL. *Conn Med* 40: 312-4, May 76 (Eng) \*DL/77APR487

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; GOUT (blood); HUMAN; INSULIN (blood); MALE; MIDDLE AGE.



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[BASIC PRINCIPLES OF BIOMEMBRANE FUNCTION] Knauf H *Verh Dtsch Ges Inn Med* 81: 726-37, 1975 (Ger) \*DL/77APR694  
BIOLOGICAL TRANSPORT; CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (metabolism, physiology); HUMAN; MEMBRANE POTENTIALS.

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IN VITRO MODEL SYSTEMS FOR THE STUDY OF HORMONE-DEPENDENT HUMAN BREAST CANCER. Lippman ME, Osborne CK, Knazek R, Young N *N Engl J Med* 296: 154-9, 20 Jan 77 (Eng) DL/77APR241

### Knick B

[DIET THERAPY OF ADULT DIABETES] Knick B *Ther Umsch* 33: 612-9, Sep 76 (Ger) DL/77APR325  
ADULT; AGE FACTORS; DIABETES MELLITUS (diet therapy); DIABETIC DIET; DIETARY CARBOHYDRATES (administration & dosage); ENGLISH ABSTRACT; HUMAN; OBESITY IN DIABETES (diet therapy).

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INVESTIGATIONS ON ISOLATED ISLETS OF LANGERHANS IN VITRO. XIV. INSULIN SECRETION AND INSULIN STORES OF CULTIVATED ISLETS FROM SAND RATS (PSAMMOMYS OBESUS): INVESTIGATIONS OF GLUCOSE-DOSE RESPONSE. Ziegler B, Ziegler M, Knospe S, Hahn HJ *Endokrinologie* 68: 95-103, Oct 76 (Eng) DL/77APR61

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INSULIN, OBESITY, AND TRIGLYCERIDE INTERRELATIONSHIPS IN SIXTEEN CHILDREN WITH FAMILIAL HYPERTRIGLYCERIDEMIA. Glueck CJ, Mellies MJ, Srivastava L, Knowles HC Jr, Fallat RW, Tsang RC, Wacholder S, Buncher CR *Pediatr Res* 11: 13-9, Jan 77 (Eng) DL/77APR257

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LIGHT AND ELECTRON MICROSCOPIC STUDY ON THE ENDOCRINE CELLS OF THE PANCREAS IN A MARINE TELEOST, FUGU RUBRIPES RUBRIPES. Kobayashi K, Shibasaki S, Takahashi Y *Cell Tissue Res* 174: 161-82, 29 Oct 76 (Eng) DL/77APR30  
ANIMAL; CYTOPLASMIC GRANULES (ultrastructure); FISHES (anatomy & histology); ISLANDS OF LANGERHANS (ultrastructure); MICROSCOPY, ELECTRON.

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DIFFERENTIAL EFFECT OF ALPHA- AND BETA-D-GLUCOSE ON PROTECTION AGAINST ALLOXAN TOXICITY IN ISOLATED ISLETS. Tomita T, Kobayashi M *Biochem Biophys Res Commun* 73: 791-8, 6 Dec 76 (Eng) DL/77APR411

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INHIBITION OF GASTRIC ACID AND GASTRIN SECRETION BY SOMATOSTATIN IN MAN. Arnold R, Kobberling J, Creutzfeldt W *Z Gastroenterol* [Verh] 43: 50, 1976 (Eng) DL/77APR348

SOLUBILIZATION AND PARTIAL PURIFICATION OF A GROWTH HORMONE RECEPTOR FROM RABBIT LIVER. McIntosh C, Warnecke J, Niegler M, Barner A, Kobberling J *FEBS Lett* 66: 149-54, 1 Jul 76 (Eng) \*DL/77APR535

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GASTRIC MUCOSA (blood supply, drug effects); GASTRIN (pharmacodynamics); GASTROINTESTINAL HORMONES

(pharmacodynamics); GLUCAGON (pharmacodynamics); HUMAN; MOTILIN (pharmacodynamics); PENTAGASTRIN (pharmacodynamics); SECRETIN (pharmacodynamics).

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ADULT; CATARACT (congenital, etiology, familial & genetic); DIABETES MELLITUS (complications); EYE MANIFESTATIONS; FEMALE; GALACTOSEMIA (complications); HEMODIALYSIS (adverse effects); HEPATOLENTICULAR DEGENERATION (complications); HUMAN; HYPOCALCEMIA (complications); ICHTHYOSIS (complications); INFANT; INFANT, NEWBORN; MYOTONIA ATROPHICA (familial & genetic); PREGNANCY COMPLICATIONS, INFECTIOUS (in pregnancy); PREGNANCY; RUBELLA (complications); SKIN DISEASES (complications).

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BEHAVIOR THERAPY; DEPRESSION (complications); DIABETES MELLITUS (complications); DIAGNOSIS, DIFFERENTIAL; FEMALE; HUMAN; IMPOTENCE (diagnosis, etiology, therapy); LIBIDO; MALE; VASCULAR DISEASES (complications).

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ANIMAL; DOGS; ISLANDS OF LANGERHANS (transplantation); PANCREAS (secretion, transplantation); PANCREATIC JUICE (secretion); POSTOPERATIVE

COMPLICATIONS (prevention & control); TISSUE CULTURE; TISSUE PRESERVATION; TRANSPLANTATION, AUTOLOGOUS (methods).

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[THE IMPORTANCE OF CLINICAL OBSERVATIONS FOR MEDICAL RESEARCH] Koller F *Schweiz Med Wochenschr* 106: 1489-98, 30 Oct 76 (Ger) [84] DL/77APR299  
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CHOLESTEROL (blood); CLINICAL RESEARCH; CORONARY DISEASE (prevention & control); DIET, REDUCING; DIETARY FATS; ENGLISH ABSTRACT; FEMALE; FINLAND; HUMAN; MALE; MIDDLE AGE; UNITED STATES.

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ANIMAL EXPERIMENTS (analysis); BICARBONATES (secretion); CHOLECYSTOKININ; DEPRESSION; CHEMICAL; DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; GASTRIC FISTULA;



## Kopczynski Z

GASTRIC JUICE (secretion); OLEIC ACIDS (pharmacodynamics); PANCREAS (secretion); PANCREATIC FISTULA; PEPTIDES; PROTEINS (secretion); SECRETIN; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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ADENOSINE TRIPHOSPHATE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); ESCHERICHIA COLI (metabolism); GENES; GLUCONATES (metabolism); MUTATION; PHENOTYPE; REVIEW; SALMONELLA TYPHIMURIUM (metabolism); SPECIES SPECIFICITY.

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ADIPOSE TISSUE (blood supply, metabolism); ANIMAL EXPERIMENTS (analysis); DOGS; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (blood); HYDROGEN-ION CONCENTRATION (physiology); LACTATES (blood); MESENTERY (blood supply, metabolism); OMENTUM (blood supply, metabolism); REGIONAL BLOOD FLOW; SHOCK, HEMORRHAGIC (metabolism, physiopathology); SKIN (blood supply, metabolism).

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AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); BABOONS; CALCIUM (metabolism); CARBOHYDRATES (metabolism); CHLORIDES (metabolism); DISEASE MODELS, ANIMAL; HYPERPLASIA; ILEUM (metabolism, surgery); INTESTINAL ABSORPTION; JEJUNUM (metabolism, surgery); MAGNESIUM (metabolism); MALE; MONKEYS; OBESITY (metabolism, surgery); POTASSIUM (metabolism); SODIUM (metabolism).

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ACID-BASE EQUILIBRIUM (drug effects); AMINOTRANSFERASES (blood); ANESTHESIA, GENERAL; ANESTHETICS; ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR; CHLOROPROMAZINE; DOGS; DRUG SYNERGISM; ENGLISH ABSTRACT; ISONIPECOTIC ACIDS; NITRILES; PIPERIDINES; PULSE (drug effects); RESPIRATION (drug effects).

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ADRIAMYCIN (therapeutic use); ADULT; CASE REPORT; DIAZOXIDE (therapeutic use); DRUG ADMINISTRATION SCHEDULE; DRUG THERAPY, COMBINATION; FEMALE; FLUOROURACIL (therapeutic use); HORMONES, ECTOPIC (blood); HUMAN; ISLET CELL TUMOR (blood, drug therapy, mortality); MALE; MIDDLE AGE; NEOPLASM METASTASIS; OREGON; PANCREATIC NEOPLASMS (blood, drug therapy, mortality); RIBONUCLEOSIDES (therapeutic use); STREPTOZOTOCIN (therapeutic use); TUBERCIDIN (therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANILINO NAPHTHALENESULFONATES; LECITHINS; LIPIDS; MEMBRANES, ARTIFICIAL; MOLECULAR CONFORMATION; PYRENES; SPECTROMETRY, FLUORESCENCE.

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ACETATES (metabolism); ARTHROBACTER (enzymology, growth & development, metabolism); CARBOXY-LYASES (metabolism); CELL-FREE SYSTEM; FRUCTOSE (metabolism); GLUCOSE (metabolism); KETOACID-LYASES (metabolism); MALATE DEHYDROGENASE (metabolism); MALATES (metabolism); MUTATION; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PYRUVATE CARBOXYLASE (metabolism); STEREOISOMERS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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(blood); ADENOSINE TRIPHOSPHATE (blood); ADENYLATE KINASE (blood); ANTIGEN-ANTIBODY COMPLEX; BLOOD COAGULATION FACTORS; BLOOD COAGULATION; BLOOD PLATELET DISORDERS (blood, enzymology, immunology); BLOOD PLATELETS (physiology); CYTOCHROME OXIDASE (blood); FIBRINOLYSIS; HEMOSTASIS; HEXOKINASE (blood); HUMAN; LACTATE DEHYDROGENASE (blood); PLATELET AGGREGATION.

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ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); DRUG SYNERGISM; ENGLISH ABSTRACT; EPINEPHRINE (metabolism, pharmacodynamics); ISOPROTERENOL (pharmacodynamics); LIPIDS (metabolism); MALE; PHENTOLAMINE (pharmacodynamics); RABBITS; RECEPTORS, ADRENERGIC; SEASONS.

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## LINSCHER WG

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**AMINO ACID SEQUENCE; ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood, chemically induced); FEMALE; MICE; MICE, OBESE; MOLECULAR WEIGHT; PEPTIDES (isolation & purification); SOMATOTROPIN (analysis); STRUCTURE-ACTIVITY RELATIONSHIP; TIME FACTORS.**

### Loubatieres A

**[COMPARATIVE STUDY OF THE INSULIN-SECRETING EFFECTS OF L (&) AND OF D (-) SODIUM LACTATE]** Loubatieres-Mariani MM, Loubatieres A, Blayac JP *C R Soc Biol (Paris)* 170: 825-7, 1976 (Fre) DL/77APR16

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**[CORRELATION BETWEEN LACTATE OUTPUT AND INSULIN SECRETION OF THE ISOLATED PERFUSED RAT PANCREAS UNDER THE INFLUENCE OF HIGH CONCENTRATIONS OF PHENFORMIN]** Loubatieres AL, Loubatieres-Mariani MM, Alric R, Blayac JP, Valette G *C R Soc Biol (Paris)* 170: 828-32, 1976 (Fre) DL/77APR17

**ANIMAL; ENGLISH ABSTRACT; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); LACTATES (secretion); PERFUSION; PHENFORMIN (pharmacodynamics); RATS; SECRETORY RATE (drug effects); STIMULATION, CHEMICAL.**

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**ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); PERFUSION; RATS; SECRETORY RATE (drug effects).**

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DIETARY CARBOHYDRATES EFFECTS UPON MAGNESIUM METABOLISM IN SHEEP. Madsen FC, Lentz DE, Miller JK, Lowery-Harnden D, Hansard SL *J Anim Sci* 42: 1316-22, May 76 (Eng) \*DL/77APR424

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**[BEHAVIOR OF THE METABOLISM IN GASTRIC PATIENTS DURING A 4-DAY-LONG POSTOPERATIVE COMPLETE PARENTERAL FEEDING WITH AMINO ACIDS AND A GLUCOSE-LEVULOSE-XYLITOL COMBINATION SOLUTION]** Peter K, Butz R, Greiner E, Kersting KH, Martin E, Mast D, Schmidt R, Schmitz ER *Z Ernahrungswiss* 14: 324-32, Dec 75 (Ger) \*DL/77APR689

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**ADULT; AGED; DEAFNESS (etiology); DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERGLYCEMIA (complications); LABYRINTH DISEASES (etiology); MALE; METABOLIC DISEASES (complications); MIDDLE AGE; URIC ACID (blood).**

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**ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (immunology); FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); MALE; MIDDLE AGE.**

#### Mary P

**[ALTERNATING LOW CALORY DIETS (200 TO 1000 CALORIES), THEIR VALUE IN THE TREATMENT OF RESISTANT OBESITY]** Mirouze J, Mary P, Schmouker Y, Lapinski H, Chauchard C, Prunac N *Sem Hop Paris* 52: 2255-61, 23 Nov 76 (Fre) DL/77APR309

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**ADMINISTRATION, ORAL; ALLOXAN DIABETES (drug therapy); ANIMAL; COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy); ENGLISH ABSTRACT; FEMALE; GLIBENCLAMIDE (therapeutic use); HYPOGLYCEMIC AGENTS (analysis); INJECTIONS, INTRAVENOUS; MALE; MICE; PLANT EXTRACTS (analysis, therapeutic use); PLANTS, MEDICINAL (analysis).**

#### Mast D

**[BEHAVIOR OF THE METABOLISM IN GASTRIC PATIENTS DURING A 4-DAY-LONG POSTOPERATIVE COMPLETE PARENTERAL FEEDING WITH AMINO ACIDS AND A GLUCOSE-LEVULOSE-XYLITOL COMBINATION SOLUTION]** Peter K, Butz R, Greiner E, Kersting KH, Martin E, Mast D, Schmidt R, Schmitz ER *Z Ernahrungswiss* 14: 324-32, Dec 75 (Ger) \*DL/77APR689

#### Matas AJ

**RENAL TRANSPLANTATION IN THE DIABETIC.** Sutherland DE, Kjellstrand CM, Simmons RL, Mauer SM, Buselmeier TJ, Goetz FC, Matas AJ, Haymond M, Howard RJ, Buls J, Najarian JS *Min Med* 59: 766-71, Nov 76 (Eng) DL/77APR232

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**EFFECT OF SECRETIN, GLUCAGON AND DUODENAL ACIDIFICATION ON BOMBESIN-INDUCED HYPERGASTRINEMIA IN MAN.** Basso N, Giri S, Lezoeche E, Materia A, Melchiorri P, Speranza V *Am J Gastroenterol* 66: 448-51, Nov 76 (Eng) DL/77APR373

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**THE SIGNIFICANCE OF THE ASSOCIATION OF TISSUE AUTOANTIBODIES AND RHEUMATOID FACTOR WITH ANGINA IN THE BUSSETON POPULATION.** Mathews JD, Rodger BM, Stenhouse NS *J Chronic Dis* 29: 345-53, Jun 76 (Eng) \*DL/77APR562

**ADULT; AGING; ANGINA PECTORIS (immunology, occurrence); AUSTRALIA; AUTOANTIBODIES (analysis); BLOOD SUGAR (analysis); CHOLESTEROL (blood); FEMALE; HUMAN; HYPERTENSION (immunology); MALE; MIDDLE AGE; RHEUMATOID FACTOR (analysis); RISK; SEX FACTORS; SKINFOLD THICKNESS; SMOKING (complications); STOMACH (immunology); THYROID GLAND (immunology).**

#### Mathieu-Levy N

**[INFLUENCE OF THE OXYGENATION STATE OF THE CULTURE MEDIA ON THE LEVEL OF NON ESTERIFIED FATTY ACIDS AND OF CHOLESTEROL IN HEART CELLS OF THE NEWBORN RAT]** Freyss-Beguini M, Mathieu-Levy N, Van Brussel E, Lechat P *C R Soc Biol (Paris)* 169: 1429-35, 1975 (Fre) \*DL/77APR462

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**SUPPRESSION BY CYPROHEPTADINE OF HUMAN GROWTH HORMONE AND CORTISOL SECRETION DURING SLEEP.** Chihara K, Kato Y, Maeda K, Matsukura S, Imura H *J Clin Invest* 57: 1393-402, Jun 76 (Eng) \*DL/77APR565

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**ADENOSINE DIPHOSPHATE (pharmacodynamics); DIABETES MELLITUS (blood); HUMAN; PLATELET AGGREGATION (drug effects).**

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**ADULT; CALCIUM (blood, urine); CARBOHYDRATES (administration & dosage); ELECTROLYTES (metabolism); HUMAN; INFUSIONS, PARENTERAL; MALE; PHOSPHORUS (blood, urine); POTASSIUM (blood, urine); SODIUM (blood, urine); WATER-ELECTROLYTE BALANCE.**

**[CARBOHYDRATE ADMINISTRATION AND ELECTROLYTE BALANCE IN PATIENTS UNDER INTENSIVE CARE]** Bertels O, Grumeth M, Kramer G, Matzkies F, Petzoldt R, Sailer D, Toppner F, Waldherr A *Z Ernahrungswiss* 14: 309-14, Dec 75 (Ger) \*DL/77APR688

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**THE CIRCADIAN RHYTHM OF SYNTHESIS AND CATABOLISM OF CHOLESTEROL.** Mayer D *Arch Toxicol (Berl)* 36: 267-76, 17 Dec 76 (Eng) DL/77APR403

**ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL; CHOLESTEROL (metabolism); CHOLESTEROL-7-HYDROXYLASE (metabolism); CHOLESTEROL, DIETARY; CHOLESTYRAMINE (pharmacodynamics); CHOLIC ACIDS (pharmacodynamics); CIRCADIAN RHYTHM; HYDROXYMETHYLGLUTARYL COA REDUCTASES (metabolism); INSULIN (pharmacodynamics); RATS; STARVATION; STEROID HYDROXYLASES (metabolism); THYROID GLAND (physiology); THYROIDECTOMY.**

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### Mayes PA

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**ANIMAL; FATTY ACIDS** (metabolism); **FRUCTOSE** (pharmacodynamics); **GLUCAGON** (pharmacodynamics); **INSULIN** (pharmacodynamics); **KETONE BODIES** (metabolism); **LIPIDS** (biosynthesis); **LIPOPROTEINS, VLDL** (biosynthesis); **LIVER** (drug effects, metabolism); **OLEIC ACIDS** (metabolism); **OXIDATION-REDUCTION**; **OXYGEN CONSUMPTION**; **PERFUSION**; **RATS**; **REVIEW**; **STARVATION**; **TRIGLYCERIDES** (metabolism).

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**[BEHAVIOR OF PLASMA ACTH AND SOMATOTROPIN DURING HYPOGLYCEMIA DUE TO INSULIN IN SUBJECTS AFFECTED BY CONGENITAL ADRENOGENITAL SYNDROME]** Cacciari E, Cicognani A, Pirazzoli P, Tassoni P, Salardi S, Bernardi F, Zappulla F, Mazzanti L *Minerva Pediatr* 28: 1545-8, 4 Aug 76 (Ita) DL/77APR228

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### McGuire LB

**FACTORS INFLUENCING SURVIVAL OF PATIENTS WITH PERMANENT CARDIAC PACEMAKERS.** Nolan SP, Crampton RS, McGuire LB, McGann RC, Holz HC, Muller WH *Ann Surg* 185: 122-7, Jan 77 (Eng) DL/77APR398

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**SOLUBILIZATION AND PARTIAL PURIFICATION OF A GROWTH HORMONE RECEPTOR FROM RABBIT LIVER.** McIntosh C, Warnecke J, Niegler M, Barner A, Kobberling J *FEBS Lett* 66: 149-54, 1 Jul 76 (Eng) \*DL/77APR535  
**ANIMAL EXPERIMENTS** (analysis); **CHROMATOGRAPHY, AFFINITY**; **FEMALE**; **MICROSOMES, LIVER** (analysis); **RABBITS**; **RECEPTORS, HORMONE**; **SOLUBILITY**; **SOMATOTROPIN** (metabolism); **TRITONS**.

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**THE EFFECT OF SUBLETHAL CONCENTRATIONS OF ZINC ON GROWTH AND PLASMA GLUCOSE LEVELS IN RAINBOW TROUT, SALMO GAIARDNERI (RICHARDSON).** Watson TA, McKeown BA *J Wildl Dis* 12: 263-70, Apr 76 (Eng) \*DL/77APR632

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**ADOLESCENCE**; **BODY WEIGHT**; **CHILD**; **CHILD, PRESCHOOL**; **CLINICAL RESEARCH**; **DIABETES MELLITUS, JUVENILE** (drug therapy); **DRUG COMPOUNDING** (standards); **FEMALE**; **HUMAN**; **INSULIN** (administration & dosage, therapeutic use); **MALE**; **PARENTS**; **SYRINGES**.

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**NORADRENERGIC FEEDING SYSTEM IN MONKEY HYPOTHALAMUS IS ALTERED BY LOCALIZED PERFUSION OF GLUCOSE, INSULIN, 2-DG AND EATING.** McQueen A, Armstrong S, Singer G *Pharmacol Biochem Behav* 5: 491-4, Oct 76 (Eng) DL/77APR272  
**ANIMAL; DEOXY SUGARS** (pharmacodynamics); **DEOXYGLUCOSE** (administration & dosage, pharmacodynamics); **EATING**; **FEEDING BEHAVIOR** (drug effects); **GLUCOSE** (administration & dosage, pharmacodynamics); **HYPOTHALAMUS** (drug effects, physiology); **INJECTIONS**; **INSULIN** (administration & dosage, pharmacodynamics); **MONKEYS**; **NOREPINEPHRINE** (physiology); **UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.** ).

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**STUDIES OF PHOSPHATE TRANSPORT IN ESCHERICHIA COLI. I. REEXAMINATION OF THE EFFECT OF OSMOTIC AND COLD SHOCK ON PHOSPHATE UPTAKE AND SOME ATTEMPTS TO RESTORE UPTAKE WITH PHOSPHATE BINDING PROTEIN.** Rac AS, Strickland KP, Medveczky N, Rosenberg H *Biochim Biophys Acta* 433: 555-63, 21 May 76 (Eng) \*DL/77APR429

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**BIGUANIDES** (pharmacodynamics, therapeutic use); **DIABETES MELLITUS** (drug therapy); **ENGLISH ABSTRACT**; **GLUCONEOGENESIS** (drug effects); **HUMAN**.

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**ANIMAL EXPERIMENTS** (analysis); **BIOGENIC AMINES** (pharmacodynamics, physiology); **COMPARATIVE STUDY**; **ERGOT ALKALOIDS** (pharmacodynamics); **ESTRADIOL** (pharmacodynamics); **FEEDBACK**; **FEMALE**; **HUMAN**; **HYPOTHALAMUS** (drug effects, physiology); **MALE**; **MONOGRAPH** (mortality); **PROLACTIN RELEASE INHIBITING HORMONE** (physiology); **PROLACTIN RELEASING HORMONE** (physiology); **PROLACTIN** (secretion); **REVIEW**; **STIMULATION, CHEMICAL**; **THYROTROPIN RELEASING HORMONE** (pharmacodynamics); **THYROXINE** (pharmacodynamics).

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**EFFECT OF SECRETIN, GLUCAGON AND DUODENAL ACIDIFICATION ON BOM-**

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**ADOLESCENCE**; **BRAIN EDEMA** (etiology); **CASE REPORT**; **CHILD**; **CHILD, PRESCHOOL**; **DIABETES INSIPIDUS** (complications); **DIABETES MELLITUS, JUVENILE** (complications); **DIABETIC COMA** (complications); **HUMAN**; **MALE**.

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**STUDIES ON THE ACTIVE SITE OF YEAST HEXOKINASE. SPECIFIC PHOSPHORYLATION OF A SERINE RESIDUE INDUCED BY D-XYLOSE AND ATPMG.** Menezes LC, Pudles J *Eur J Biochem* 65: 41-7, 17 May 76 (Eng) \*DL/77APR512

**ADENOSINE TRIPHOSPHATE** (pharmacodynamics); **BINDING SITES**; **HEXOKINASE** (metabolism); **HYDROGEN-ION CONCENTRATION** (physiology); **KINETICS**; **MAGNESIUM** (pharmacodynamics); **PROTEIN BINDING**; **PROTEIN CONFORMATION**; **SACCHAROMYCES CEREVISIAE** (enzymology); **SERINE** (analysis); **XYLOSE** (pharmacodynamics).

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**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (blood); **ADULT**; **BLOOD SUGAR** (metabolism); **DRUG INTERACTIONS**; **GLUCAGON** (pharmacodynamics); **HUMAN**; **ISOPROTERENOL** (pharmacodynamics); **PROPRANOLOL** (pharmacodynamics).

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**DIABETIC RETINOPATHY** (surgery); **ENGLISH ABSTRACT**; **EYE NEOPLASMS** (surgery); **GERMANY, WEST**; **HISTORICAL ARTICLE**; **HUMAN**; **LIGHT COAGULATION** (history); **MICROSURGERY** (methods); **OPHTHALMOLOGY** (methods); **RETINAL DETACHMENT** (surgery).

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ADMINISTRATION, ORAL; ADULT; CALCINOSIS; CHRONIC DISEASE; COMPARATIVE STUDY; DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (secretion); MALE; MIDDLE AGE; OBESITY IN DIABETES (physiopathology); PANCREATITIS (physiopathology); PREDIABETIC STATE (diagnosis); RADIOIMMUNOASSAY.

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ALCOHOL, ETHYL (pharmacodynamics); BASAL METABOLISM (drug effects); BODY TEMPERATURE REGULATION (drug effects); BODY WEIGHT; CAFFEINE (pharmacodynamics); COLD; ENERGY METABOLISM; EXERTION; HUMAN; MONOGRAPH (mortality); OBESITY (metabolism); SMOKING; STRESS (metabolism); THERMODYNAMICS.

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ADENINE NUCLEOTIDES (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE

(metabolism); ADENOSINE DIPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ANTIMYCIN A (pharmacodynamics); BLOOD PLATELETS (drug effects, enzymology, metabolism); DEOXYGLUCOSE (pharmacodynamics); ENERGY METABOLISM (drug effects); EPINEPHRINE (pharmacodynamics); ETHYLMALIMIDE (pharmacodynamics); HUMAN; IN VITRO; PROTAGLANDINS E (pharmacodynamics); STIMULATION, CHEMICAL; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ASSAY OF PIG GROWTH HORMONE PREPARATIONS FOR METABOLIC ACTIVITIES IN THE RAT AND IN MAN. Mills JB, Zeringue M, Harris R, Wilhelm AE, Rudman D *J Clin Endocrinol Metab* 42: 1127-32, Jun 76 (Eng) \*DL/77APR563

ADOLESCENCE; ADULT; ANIMAL EXPERIMENTS (analysis); CHILD; FEMALE; FIBRINOLYSIS (metabolism); HUMAN; MALE; MIDDLE AGE; MYOTONIA ATROPHICA (drug therapy); PEPTIDE FRAGMENTS (therapeutic use); PITUITARY DISEASES (drug therapy); RATS; SOMATOTROPIN (deficiency, metabolism, therapeutic use); SPECIES SPECIFICITY; SWINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL EXPERIMENTS (analysis); BINDING SITES; BINDING, COMPETITIVE; CATS; CELL MEMBRANE (drug effects, metabolism); FEMALE; INTESTINE, SMALL (physiology); KINETICS; MALE; PANCREAS (drug effects, metabolism); PEPTIDES (pharmacodynamics); PROTEIN BINDING; PROTEINS (metabolism); SECRETIN (metabolism).

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ACROMEGALY (blood, physiopathology); BLOOD SUGAR (analysis); COMPARATIVE STUDY; ELECTROENCEPHALOGRAPHY; HUMAN; OBESITY (blood, physiopathology); SLEEP; SOMATOTROPIN (blood, secretion).

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ADOLESCENCE; ADULT; ALANINE AMINOTRANSFERASE (blood); ASPARTATE AMINOTRANSFERASE (blood); CHOLESTEROL (blood); DIABETES MELLITUS (blood, physiopathology, urine); DIABETIC ANGIOPATHIES (physiopathology); ENGLISH ABSTRACT; FEMALE; HEPATOMEGALY; HUMAN; LIPIDS (blood); LIPOPROTEINS, LDL (blood); LIVER (physiopathology); MALE; MIDDLE AGE; ROSE BENGAL (diagnostic use); SERUM ALBUMIN (metabolism); UROBILIN (urine).

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; APPETITE DEPRESSANTS (therapeutic use); CLINICAL RESEARCH; DIABETES MELLITUS (complications); DIET, REDUCING; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERTENSION (complications); MALE; METABOLIC DISEASES (complications); MIDDLE AGE; OBESITY (diet therapy, drug therapy); PERIODICITY; SEX FACTORS; TIME FACTORS.

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ANIMAL EXPERIMENTS (analysis); ENGLISH ABSTRACT; EPINEPHRINE (poisoning); HEART (drug effects); MITOCHONDRIA, MUSCLE (drug effects, ultrastructure); MYOCARDIUM (pathology); RATS.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL; DNA REPLICATION (drug effects); ENZYME INDUCTION (drug effects); GLUCAGON (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); HEPARIN (pharmacodynamics); KINETICS; LIVER REGENERATION; LIVER (metabolism); LIVER (drug effects); MALE; ORNITHINE DECARBOXYLASE (biosynthesis); RATS; THYMIDINE KINASE (biosynthesis); TRIIODOTHYRONINE (pharmacodynamics); TYROSINE AMINOTRANSFERASE (biosynthesis).

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ADULT; BLOOD SUGAR (metabolism); FEMALE; HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; NEUROSES (blood); SOMATOTROPIN (blood); STRESS, PSYCHOLOGICAL; TIME FACTORS.

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**[GROWTH HORMONE IN THE NEWBORN INFANT DURING THE FIRST 6 DAYS OF LIFE]** Mohr D, Weidinger H, Bindl S, Hebestreit HP *Fortschr Med* 93: 1341-4, 9 Oct 75 (Ger) \*DL/77APR538

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CEREBRAL CORTEX (blood supply, metabolism); GERBILS; GLUCOSE (metabolism); GLUTAMATES (metabolism); GLYCOCEN (metabolism); GABA (metabolism); ISCHEMIA (metabolism); KINETICS; LACTATES (metabolism); PHOSPHOCREATINE (metabolism).

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ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS (metabolism, surgery); METHODS; PANCREAS (embryology, transplantation); RATS; STREPTOZOTOCIN; TRANSPLANTATION, ALLOGENEIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.



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DIABETOGENIC EFFECT OF TRIAMCINOLONE IN MAN WITH IMPAIRED THYROID FUNCTION: SERUM FREE FATTY ACIDS, INORGANIC PHOSPHORUS, CALCIUM AND TOTAL PROTEIN PATTERN AFTER AN ORAL GLUCOSE LOAD. Zamrazil V, Nemec J, Felt V, Havelka J, Nedvedkova J *Endokrinologie* 68: 86-94, Oct 76 (Eng) DL/77APR60

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(analogs & derivatives, metabolism); KINETICS; LIVER (metabolism, ultrastructure); LYMPHOCYTES (metabolism); MICE; MICE, INBRED C57BL; MICE, OBESE; RATS; RECEPTORS, INSULIN (drug effects, metabolism); SOMATOTROPIN (pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP.

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BURSA OF FABRICIUS (physiopathology); CHICKENS (physiology); COLD; CORTICOSTERONE (biosynthesis, blood); CORTICOTROPIN (pharmacodynamics); MALE; POULTRY DISEASES (physiopathology); STARVATION (physiopathology, veterinary); STRESS (physiopathology, veterinary).

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AGE FACTORS; AMINOISOBUTYRIC ACID (metabolism); ANIMAL; DIAPHRAGM; DWARFISM (metabolism); INSULIN (pharmacodynamics); LEUCINE (metabolism); METHYLGLUCOSIDES (metabolism); MICE; MICE, INBRED STRAINS; MUSCLE PROTEINS (biosynthesis); MUSCLES (drug effects, metabolism); PARATHYROID GLANDS (physiology); PITUITARY GLAND (physiology); PROLACTIN (pharmacodynamics); RATS; SOMATOTROPIN (pharmacodynamics); THYROID GLAND (physiology); THYROID HORMONES (pharmacodynamics); THYROXINE (pharmacodynamics); TIME FACTORS; TRIIODOTHYRONINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

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**[SERUM CONCENTRATIONS OF SINGLE NONESTERIFIED FATTY ACIDS IN PATIENTS FOLLOWING CARDIOVERSION AND ACUTE MYOCARDIAL INFARCT. DIAGNOSTIC RELEVANCE OF NONESTERIFIED FATTY ACIDS AND THEIR ARRHYTHMOGENITY]** Grunert A, Olbermann M, Grunert-Fuchs M *Med Welt* 27: 1304-7, 25 Jun 76 (Ger) \*DL/77APR649

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Painter RG

(drug therapy, etiology, familial & genetic, metabolism).

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[EVIDENCE FOR EXISTENCE OF PORES IN INTRAMEMBRANOUS PARTICLES REVEALED BY FREEZE FRACTURING] Orci L, Perrelet A, Malaisse-Lagae F, Vassalli P *C R Acad Sci [D] (Paris)* 283: 1509-10, 22 Nov 76 (Fre) DL/77APR35

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IN VITRO MODEL SYSTEMS FOR THE STUDY OF HORMONE-DEPENDENT HUMAN BREAST CANCER. Lippman ME, Osborne CK, Knazek R, Young N *N Engl J Med* 296: 154-9, 20 Jan 77 (Eng) DL/77APR241

HORMONE RESPONSIVE HUMAN BREAST CANCER IN LONG-TERM TISSUE CULTURE: EFFECT OF INSULIN. Osborne CK, Bolan G, Monaco ME, Lippman ME *Proc Natl Acad Sci USA* 73: 4536-40, Dec 76 (Eng) DL/77APR269

BREAST NEOPLASMS (metabolism); CELL DIVISION (drug effects); CELL LINE; DACTINOMYCIN (pharmacodynamics); DEXAMETHASONE (pharmacodynamics); DNA, NEOPLASM (biosynthesis); GLUCOSE

(metabolism); HUMAN; INSULIN (pharmacodynamics); NEOPLASM PROTEINS (biosynthesis); NEOPLASMS, EXPERIMENTAL (metabolism); RNA, NEOPLASM (biosynthesis); TISSUE CULTURE.

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ADOLESCENCE; BINDING SITES, ANTIBODY; BLOOD SUGAR (analysis); CHILD; FASTING; FEMALE; HUMAN; INSULIN RESISTANCE; INSULIN (blood); LIPODYSTROPHY (blood, congenital, metabolism); MALE; RECEPTORS, INSULIN (metabolism); TRIGLYCERIDES (biosynthesis).

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ABDOMEN; ADIPOSE TISSUE (cytology, pathology); ADOLESCENCE; CHILD; DIET, REDUCING; HUMAN; MONOGRAPH (mortality); OBESITY (diet therapy, pathology).

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GLUCOSE METABOLISM IN ISOLATED FAT CELLS: ENHANCED RESPONSE OF LARGER ADIPOCYTES FROM OLDER RATS TO EPINEPHRINE AND ADRENOCORTICOTROPIN. DiGirolamo M, Owens JL *Horm Metab Res* 8: 445-51, Nov 76 (Eng) DL/77APR129

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL; CYTOSOL (metabolism); DIURNAL RHYTHM; ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); HEAT; HYDROXYMETHYLGLUTARYL COA REDUCTASES (antagonists & inhibitors, metabolism); INSULIN (pharmacodynamics); LIVER (enzymology); MAGNESIUM (pharmacodynamics); MICE; TRYPSIN (pharmacodynamics).

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ADENINE NUCLEOTIDES (metabolism); ALLOXAN DIABETES (metabolism, physiopathology); ALLOXAN (pharmacodynamics); ANIMAL; HEPATECTOMY; INSULIN (physiology); MALE; MITOCHONDRIA, LIVER (metabolism); OXIDATIVE PHOSPHORYLATION; RATS; TIME FACTORS.

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[TARSAL TUNNEL SYNDROME. APROPOS OF 15 PURE CASES AND 100 CASES COMBINED WITH LEPROSY OR DIABETES MELLITUS] Bourrel P, Rey A, Blanc JF, Palinacci JC, Bourges M, Giraudeau P *Rev Rhum Mal Osteoarthr* 43: 723-8, Dec 76 (Fre) DL/77APR289

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SOMATOSTATIN CONTENT OF THE HYPOTHALAMIC VENTROMEDIAL AND ARCULATE NUCLEI AND THE CIRCUMVENTRICULAR ORGANS IN THE RAT. Palkovits M, Brownstein MJ, Arimura A, Sato H, Schally V, Kizer JS *Brain Res* 109: 430-4, 11 Jun 76 (Eng) \*DL/77APR458

ANIMAL EXPERIMENTS (analysis); BRAIN MAPPING; CEREBRAL VENTRICLES (analysis); HYPOTHALAMUS (analysis); MALE; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis).

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AGE FACTORS; BODY WEIGHT; DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES; ENGLISH ABSTRACT; FOLLOW-UP STUDIES; HUMAN; HYPERTENSION; TIME FACTORS.

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ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; BUTYRATES (pharmacodynamics); CARBOXYLIC ACIDS (pharmacodynamics); GLYOXYLATES (pharmacodynamics); KETO ACIDS (pharmacodynamics); MITOCHONDRIA, LIVER (drug effects, metabolism); PYRUVATES (metabolism, pharmacodynamics); RATS.

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ADULT; CASE REPORT; FEMALE; FETAL DEATH; HUMAN; OXYTOCIN (diagnostic use); PLACENTAL FUNCTION TESTS; PREGNANCY IN DIABETES; PREGNANCY; TIME FACTORS.

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ADOLESCENCE; ADULT; AGED; CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; DIABETIC NEPHROPATHIES (complications); FEMALE; HEMODIALYSIS; HUMAN; KIDNEY FAILURE, CHRONIC (etiology, therapy); KIDNEY (transplantation); MALE; MIDDLE AGE; TRANSPLANTATION, HOMOLOGOUS.

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ANIMAL; ARGININE (pharmacodynamics); DOGS; GLUCAGON (secretion); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); SECRETORY RATE (drug effects); SOMATOTROPIN RELEASE INHIBITING HORMONE (secretion); STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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FEMALE; HUMAN; PREGNANCY IN DIABETES (therapy); PREGNANCY.

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DIABETES MELLITUS (metabolism); GLUCAGON (metabolism); HUMAN; INSULIN (metabolism); PROSTAGLANDINS (metabolism).

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ADULT; AGED; ARTERIOSCLEROSIS (blood, drug therapy); FIBRINOLYTIC AGENTS (blood, pharmacodynamics, therapeutic use); HUMAN; LIPIDS (metabolism); LONG TERM CARE; MALE; METHANDROSTENOLONE (therapeutic use); MIDDLE AGE; PHENFORMIN (therapeutic use); PLATELET ADHESIVENESS (drug effects).

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[BEHAVIOR OF THE METABOLISM IN GASTRIC PATIENTS DURING A 4-DAY-LONG POSTOPERATIVE COMPLETE PARENTERAL FEEDING WITH AMINO ACIDS AND A GLUCOSE-LEVULOSE-XYLITOL COMBINATION SOLUTION] Peter K, Butz R, Greiner E, Kersting KH, Martin E, Mast D, Schmidt R, Schmitz ER *Z Ernahrungswiss* 14: 324-32, Dec 75 (Ger) \*DL/77APR689

ACID-BASE EQUILIBRIUM; AMINO ACIDS (administration & dosage); BILIRUBIN (blood); BLOOD SUGAR (metabolism); CARBOHYDRATES (administration & dosage); ENGLISH ABSTRACT; FRUCTOSE (administration & dosage, blood); GASTRECTOMY; GLUCOSE (administration & dosage); HUMAN; LACTATES (blood); METABOLISM; PARENTERAL FEEDING; SOLUTIONS; STOMACH DISEASES (surgery); TIME FACTORS; URIC ACID (blood); VAGOTOMY; XYLITOL (administration & dosage).

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ANIMAL; CALCITONIN (metabolism); CALCIUM (metabolism); DOGS; DUCKS; GASTROINTESTINAL HORMONES (pharmacodynamics, physiology); GASTROINTESTINAL SYSTEM (physiology); GLUCAGON (metabolism, secretion); HAMSTERS; HUMAN; INSULIN (metabolism, secretion); MICE; MONKEYS; NUTRITION; PARATHYROID HORMONE (metabolism); RABBITS; RATS.

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AMINO ACID SEQUENCE; CHEMISTRY; CHOLECYSTOKININ (physiology); GASTRIC INHIBITORY POLYPEPTIDE (physiology); GASTRIN (physiology); GASTROINTESTINAL HORMONES (physiology); GASTROINTESTINAL SYSTEM (physiology); GLUCAGON (physiology); HUMAN; MOTILIN (physiology); REVIEW; SECRETIN (physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology); VASOACTIVE INTESTINAL PEPTIDE (physiology).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL; BIOLOGICAL TRANSPORT; DIHYDROXYACETONE (metabolism); EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLYCERIN (metabolism); IN VITRO; INSULIN (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); KINETICS; LACTATES (metabolism); LIVER (drug effects, metabolism); MALE; PHENYLEPHRINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; TRIOSSES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

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ALANINE AMINOTRANSFERASE (metabolism); AMINO ACIDS (analysis, metabolism); ANIMAL EXPERIMENTS (analysis); ASPARTATE AMINOTRANSFERASE (metabolism); CHORION (analysis, enzymology); ENGLISH ABSTRACT; ENZYME ACTIVATION; FEMALE; FREE RADICALS; GLUTAMATE DEHYDROGENASE (metabolism); MICE; PLACENTA (analysis, enzymology); PREGNANCY; TIME FACTORS.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; DIABETES MELLITUS (metabolism); FEMALE; GLUCOSE (pharmacodynamics); HAMSTERS; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism); MALE; XANTHINES (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (antagonists & inhibitors).

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EVIDENCE FOR LIPID SYNTHESIS BY THE DIHYDROXYACETONE PHOSPHATE PATHWAY IN RABBIT LUNG SUBCELLULAR FRACTIONS. Fisher AB, Huber GA, Furia L, Bassett D, Rabinowitz JL *J Lab Clin Med* 87: 1033-40, Jun 76 (Eng) \*DL/77APR616

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ADULT; AGED; ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE; OBESITY (blood, diagnosis).

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STUDIES OF PHOSPHATE TRANSPORT IN ESCHERICHIA COLI. I. REEXAMINATION OF THE EFFECT OF OSMOTIC AND COLD SHOCK ON PHOSPHATE UPTAKE AND SOME ATTEMPTS TO RESTORE UPTAKE WITH PHOSPHATE BINDING PROTEIN. Rae AS, Strickland KP, Medveczky N, Rosenberg H *Biochim Biophys Acta* 433: 555-63, 21 May 76 (Eng) \*DL/77APR429

BACTERIAL PROTEINS (metabolism); BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; COLD; EDTA (pharmacodynamics);

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ESCHERICHIA COLI (drug effects, metabolism); KINETICS; OSMOLAR CONCENTRATION; PHOSPHATES (metabolism); PHOSPHATES, INORGANIC (metabolism); PROTEIN BINDING.

STUDIES ON PHOSPHATE TRANSPORT IN ESCHERICHIA COLI. II. EFFECTS OF METABOLIC INHIBITORS AND DIVALENT CATIONS. Rae AS, Strickland KP *Biochim Biophys Acta* 433: 564-82, 21 May 76 (Eng) \*DL/77APR430

ADENOSINE TRIPHOSPHATASE (metabolism); AEROBICITY; ANAEROBICITY; ARSENATES (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); CYANIDES (pharmacodynamics); DICYCLOHEXYLCARBODIMIDE (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); ENZYME ACTIVATION; ESCHERICHIA COLI (drug effects, metabolism); IODOACETATES (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); MANGANESE (pharmacodynamics); NICKEL (pharmacodynamics); PHOSPHATES (metabolism); PHOSPHATES, INORGANIC (metabolism).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); CORTICOTROPIN (analogs & derivatives, pharmacodynamics); KINETICS; LIPID MOBILIZATION (drug effects); MALE; MSH (pharmacodynamics); RABBITS; RATS; SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

COMPARISON OF THE STEROIDOGENIC AND MELANOTROPIC ACTIVITIES OF CORTICOTROPIN, ALPHA-MELANOTROPIN AND ANALOGS WITH THEIR LIPOLYTIC ACTIVITIES IN RAT AND RABBIT ADIPOCYTES. Ramachandran J, Farmer SW, Liles S, Li CH *Biochim Biophys Acta* 428: 347-54, 23 Apr 76 (Eng) \*DL/77APR428

ADIPOSE TISSUE (drug effects, metabolism); AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); CORTICOTROPIN (analogs & derivatives, pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; LIPID MOBILIZATION (drug effects); MALE; MSH (analogs & derivatives, pharmacodynamics); RABBITS; RATS; SPECIES SPECIFICITY; STEROIDS (biosynthesis); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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EFFECTS OF IMMOBILIZATION ON THE KINETICS OF ENZYME-CATALYZED REACTIONS. I. GLUCOSE OXIDASE IN A RECIRCULATION REACTOR SYSTEM. Ramachandran KB, Perlmuter DD *Biotechnol Bioeng* 18: 669-84, May 76 (Eng) \*DL/77APR448

COMPARATIVE STUDY; GLASS; GLUCOSE OXIDASE; GLUCOSE; KINETICS; MODELS, CHEMICAL; OXYGEN; TEMPERATURE; TIME FACTORS.

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INTERACTIONS BETWEEN DEXTRAN, FIBRINOGEN AND PLASMA MEMBRANES. Ramplung MW *Biochem Pharmacol* 25: 751-2, 1 Apr 76 (Eng) \*DL/77APR756

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THE REGULATORY PRINCIPLES OF GLYCOLYSIS IN ERYTHROCYTES IN VIVO AND IN VITRO. A MINIMAL COMPREHENSIVE MODEL DESCRIBING STEADY STATES, QUASI-STEADY STATES AND TIME-DEPENDENT PROCESSES. Rapoport TA, Heinrich R, Rapoport SM *Biochem J* 154: 449-69, 15 Feb 76 (Eng) \*DL/77APR749

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); ERYTHROCYTES (enzymology, metabolism); GLYCERIC ACIDS (metabolism); GLYCOLYSIS; GOATS; HUMAN; KINETICS; MODELS, BIOLOGICAL; PYRUVATE KINASE (deficiency); RABBITS; RATS.

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ANIMAL; BLOOD SUGAR (metabolism); DOGS; INSULIN (secretion); LIVER (surgery); METHODS; PANCREAS (transplantation); PANCREATECTOMY; PROGNOSIS; TIME FACTORS; TRANSPLANTATION, AUTOLOGOUS.

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AORTOCORONARY BYPASS; BLOOD SUGAR (metabolism); CORONARY VESSELS (surgery); GLUCOSE (administration & dosage); HUMAN; INSULIN (administration & dosage, blood); MYOCARDIAL INFARCT (prevention & control); PERFUSION; POTASSIUM (administration & dosage, blood); TIME FACTORS.

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use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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AMINO ACIDS (metabolism); AMMONIUM CHLORIDE (pharmacodynamics); BACTERIAL PROTEINS (metabolism); BINDING SITES; BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CATIONS, MONOVALENT; CELL MEMBRANE (drug effects, metabolism); CESIUM (pharmacodynamics); CHOLINE (pharmacodynamics); KINETICS; LITHIUM (pharmacodynamics); MAGNESIUM (pharmacodynamics); MANGANESE (pharmacodynamics); PERMEABILITY; POTASSIUM (pharmacodynamics); RUBIDIUM

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PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PROTEINS (metabolism); PYRUVATE CARBOXYLASE (metabolism); SUCCINATE DEHYDROGENASE (metabolism); TIME FACTORS.

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COMA (diagnosis); DIABETIC COMA (diagnosis); DIAGNOSIS, DIFFERENTIAL; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (diagnosis).

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ADULT; AGED; BRONCHITIS (occurrence); COMPARATIVE STUDY; CORONARY DISEASE (occurrence); DIABETES MELLITUS (occurrence); ENGLISH ABSTRACT; FEMALE; GERMANY, WEST; HUMAN; HYPERTENSION (occurrence); INTERMITTENT CLAUDICATION (occurrence); MALE; MASS SCREENING (methods); MIDDLE AGE; OCCUPATIONAL DISEASES (prevention & control); QUESTIONNAIRES; SPECIMEN HANDLING.

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ADULT; AGING; ANIMAL EXPERIMENTS (analysis); ARTERIES (metabolism, pathology); ARTERIOSCLEROSIS (etiology, metabolism, pathology); BLOOD PLATELETS (metabolism); CELL DIVISION; CELLS, CULTURED; CHILD; COLLAGEN (metabolism); DERMATAN SULFATE (metabolism); ENDOTHELIUM (cytology, metabolism, pathology); FATTY STREAK, ARTERIAL (pathology); GLYCOSAMINOGLYCANS (metabolism); HUMAN; HYPERCHOLESTEREMIA (pathology); MONKEYS; MUSCLE, SMOOTH (metabolism, pathology); REVIEW; THROMBOPENIA (pathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL; BINDING SITES, ANTIBODY; DRUG RESISTANCE; HUMAN; INSULIN ANTIBODIES; INSULIN RESISTANCE; INSULIN (blood); INSULIN (metabolism); LIPODYSTROPHY (metabolism); OBESITY (metabolism); RECEPTORS, HORMONE; RECEPTORS, INSULIN.

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TRANSNASAL TRANSSPHENOIDAL APPROACH TO THE SELLA. Roth JA, Seljeskog EL, Duvall AJ 3d, Long DM *Laryngoscope* 87: 47-57, Jan 77 (Eng) DL/77APR208  
ADENOMA (surgery); BREAST NEOPLASMS (therapy); CARCINOMA (therapy); DIABETIC RETINOPATHY (therapy); FEMALE; HUMAN; HYPOPHYSECTOMY (instrumentation, methods); MALE; MICROSURGERY (methods); NEOPLASM METASTASIS; PALLIATIVE TREATMENT; PITUITARY DISEASES (surgery); PITUITARY GLAND (anatomy & histology); PITUITARY NEOPLASMS (surgery); POSTOPERATIVE COMPLICATIONS (poisoning); PROSTATIC NEOPLASMS (therapy); SELLA TURCICA (anatomy & histology, surgery).

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AGE FACTORS; ANIMAL EXPERIMENTS (analysis); ANIMALS, NEWBORN (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; COMPARATIVE STUDY; GLYCINE (metabolism); IN VITRO; KIDNEY TUBULES, PROXIMAL (metabolism); METHYLGLUCOSIDES (metabolism); METHYLGLYCOSIDES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL EXPERIMENTS (analysis); BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism, ultrastructure); CULEX (metabolism); EGG PROTEINS (metabolism); FEMALE; KINETICS; MICROSCOPY, ELECTRON; OOCYTES



## Rotolo A

(metabolism, ultrastructure); OVARY (metabolism, ultrastructure); OVUM (metabolism); PROTEINS (metabolism); SERUM ALBUMIN, BOVINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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**EFFECTS OF ENDOTOXIN ON CARBOHYDRATE METABOLISM IN INBRED MICE.** Roy RS, Vas SI, Robson HG *Can J Comp Med* 40: 434-41, Oct 76 (Eng) DL/77APR22

**ANIMAL; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENDOTOXINS (administration & dosage, pharmacodynamics); GLUCAGON (administration & dosage, pharmacodynamics); GLUCONEOGENESIS (drug effects); GLYCOGEN (biosynthesis); HYPOGLYCEMIA (etiology); LIVER GLYCOGEN (metabolism); MICE, MICE, INBRED A; MICE, INBRED C3H.**

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**AN 18,000 MOLECULAR WEIGHT POLYPEPTIDE INDUCES EARLY EVENTS AND STIMULATES DNA SYNTHESIS IN CULTURED CELLS.** Bourne HR, Rozengurt E *Proc Natl Acad Sci USA* 73: 4555-9, Dec 76 (Eng) DL/77APR270

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**ADULT; AGED; CAPILLARY PERMEABILITY; DIABETES MELLITUS (physiopathology); FEMALE; HUMAN; IODINE RADIOISOTOPES (diagnostic use); LEG; MALE; MIDDLE AGE; RADIOISOTOPE DILUTION TECHNIC; SKIN (blood supply).**

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**[ANESTHESIA USING PIRITRAMIDE AND CHLORPROMAZINE IN DOGS]** Kral E, Nemecek L, Roztocil V, Sevcik F, Bouda J *Vet Med (Praha)* 21: 81-92, Feb 76 (Cze) \*DL/77APR682

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**[CAPILLAROSCOPIC OBSERVATIONS IN DIABETES COMPLICATED BY ATHEROMATOSIS OF THE LOWER EXTREMITIES (AUTHORS TRANSL)]** Roztoczynski H, Szygula E *Przegl Lek* 30: 837-40, 1976 (Pol) DL/77APR279

**ADULT; AGED; ARTERIOSCLEROSIS (complications); CAPILLARIES; DIABETIC ANGIOPATHIES (complications); ENGLISH ABSTRACT; FEMALE; FINGERS (blood supply); HUMAN; LEG (blood supply); MALE; MIDDLE**

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**ANIMAL EXPERIMENTS (analysis); CALCIUM (metabolism); CONTACT LENSES, HYDROPHILIC; CORNEA (metabolism); ENDOTHELIUM (metabolism); EPITHELIAL CELLS (metabolism); GLUCOSE (metabolism); HUMAN; LACTATE DEHYDROGENASE ISOENZYMES (analysis); LACTATES (analysis); MURAMIDASE (metabolism); OXYGEN CONSUMPTION; POTASSIUM (metabolism); RABBITS; REVIEW; TEARS (analysis); WATER (metabolism).**

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**ADIPOSE TISSUE (cytology); CELL DIFFERENTIATION (drug effects); CELL DIVISION; CELL LINE; ENZYME INDUCTION (drug effects); FIBROBLASTS (cytology); INSULIN (pharmacodynamics); MICE, INBRED BALB C; NUCLEOTIDES, CYCLIC (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); XANTHINES (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (antagonists & inhibitors, biosynthesis).**

## Rybczynska M

**THE INFLUENCE OF THE KNOWN RADIOPROTECTIVE COMPOUNDS ON THE METABOLISM OF RED BLOOD CELLS. I. EFFECT OF CYSTEAMINE ON THE CELLULAR LEVEL OF THE INTERMEDIATES AND COENZYMES.** Chmiel J, Kopczynski Z, Rybczynska M *Pol J Pharmacol Pharm* 28: 113-21, 1976 (Eng) \*DL/77APR667

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**ADULT; AMANTADINE (pharmacodynamics); HUMAN; HYPOTHALAMUS (drug effects, physiology); LEVODOPA (pharmacodynamics); MALE; MIDDLE AGE; SOMATOTROPIN (secretion).**

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**THE INTRACELLULAR MECHANISM RESPONSIBLE FOR DIETARY FEEDBACK CONTROL OF CHOLESTEROL SYNTHESIS.** Sabine JR, James MJ *Life Sci* 18: 1185-92, 1 Jun 76 (Eng) [66] \*DL/77APR648

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ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL EXPERIMENTS (analysis); CHOLESTEROL (biosynthesis); CHOLESTEROL, DIETARY (metabolism); FEEDBACK; HYDROXYMETHYLGLUTARYL COA REDUCTASES (antagonists & inhibitors, metabolism); KINETICS; LIPIDS (pharmacodynamics); MEMBRANES (enzymology, physiology); MICROSOMES, LIVER (enzymology); MODELS, BIOLOGICAL; REVIEW; STEROIDS (pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP.

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CALCIUM (blood); CARDIAC VOLUME; CEPHALOMETRY; FACTOR ANALYSIS, STATISTICAL; FEMALE; HEMATOCRIT; HEMOGLOBINS (analysis); HUMAN; HYPOGLYCEMIA (occurrence); INFANT, LOW BIRTH WEIGHT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (occurrence); INFANT, SMALL FOR GESTATIONAL AGE (injuries); POLYCYTHEMIA (occurrence); PREGNANCY TOXEMIAS (occurrence); PREGNANCY; PROSPECTIVE STUDIES; REGRESSION ANALYSIS; THYMUS GLAND (growth & development).

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ANIMAL; FATTY ACIDS (metabolism); INSULIN (pharmacodynamics); LIPID MOBILIZATION (drug effects); LIVER (drug effects, metabolism); MICE; PHOSPHOLIPIDS (metabolism); TRIGLYCERIDES (metabolism).

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[CLINICAL STUDIES ON THE ACTIVATION OF THE GH-SECRETING SYSTEM IN MAN] Saba P, Salvadorini F, Galeone F, Tognetti G, Saba GC *Clin Ter* 74: 425-33, 15 Sep 75 (Ita) \*DL/77APR486

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ORAL FIBRINOLYTIC THERAPY. GENERAL REVIEW. Samama M *Folia Haematol (Leipzig)* 103: 363-71, 1976 (Eng) [40] DL/77APR115

ADMINISTRATION, ORAL; CLOFIBRATE (administration & dosage); CORTICOTROPIN (administration & dosage); EPINEPHRINE (administration & dosage); FIBRINOLYSIS (drug effects); FIBRINOLYTIC AGENTS (administration & dosage, pharmacodynamics); HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage); REVIEW; TESTOSTERONE (administration & dosage); THROMBOSIS (prevention & control); VASOPRESSIN (administration & dosage).

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UPTAKE AND METABOLISM OF FATTY ACIDS AND ANALOGUES BY CULTURED CARDIAC CELLS FROM CHICK EMBRYO. Samuel D, Paris S, Ailhaud G *Eur J Biochem* 64: 583-95, 1 May 76 (Eng) \*DL/77APR511

BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CELL SURVIVAL; CELLS, CULTURED; CHICK EMBRYO; FATTY ACIDS, NONESTERIFIED (metabolism); GLYCERIDES (biosynthesis); KINETICS; MYOCARDIUM (metabolism); OLEIC ACIDS (metabolism); OXIDATION-REDUCTION; PALMITIC ACIDS (metabolism); PHOSPHOLIPIDS (biosynthesis); PROTEIN BINDING; SERUM ALBUMIN, BOVINE; STEARIC ACIDS (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP; TEMPERATURE.

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BLOOD FLOW AND RELEASE OF FREE FATTY ACIDS IN THE OMENTUM, MESENTERY AND SUBCUTANEOUS ADIPOSE TISSUE OF

THE DOG IN HAEMORRHAGIC SHOCK. Kovach AG, Rosell S, Sandor P, Hamar J, Ikrenyi K, Kovach E *Acta Physiol Acad Sci Hung* 45: 79-87, 1974 (Eng) \*DL/77APR716

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HORMONAL REGULATION OF FETAL BRAIN CELL PROLIFERATION: PRESENCE IN SERUM OF A TROPHIN RESPONSIVE TO PITUITARY GROWTH HORMONE STIMULATION. Sara VR, King TL, Stuart MC, Lazarus L *Endocrinology* 99: 1512-8, Dec 76 (Eng) DL/77APR54

ANIMAL; BRAIN (drug effects, embryology, metabolism); CORTICOSTERONE (pharmacodynamics); DNA (biosynthesis); FEMALE; GROWTH SUBSTANCES (blood, pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); MALE; NERVE GROWTH FACTOR (pharmacodynamics); PITUITARY GLAND (physiology); PLACENTAL LACTOGEN (pharmacodynamics); PROLACTIN (pharmacodynamics); SEX HORMONES (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); THYMIDINE (metabolism); THYROID HORMONES (pharmacodynamics).

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[MEDICAL AND SURGICAL MANAGEMENT OF CHRONIC PANCREATITIS (AUTHORS TRANSL)] Sarles JC, Sarles H *Leber Magen Darm* 6: 294-9, Oct 76 (Ger) DL/77APR210

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CHOLELITHIASIS (complications); CHRONIC DISEASE; DIABETES MELLITUS (etiology); DIETARY PROTEINS; DRAINAGE; ENGLISH ABSTRACT; HUMAN; MALABSORPTION SYNDROMES (etiology); MIDDLE AGE; PANCREATIC DUCTS; PANCREATITIS (diet therapy, surgery, therapy); PROCAINE (therapeutic use); SPLANCHNIC NERVES.

## Sato H

SOMATOSTATIN CONTENT OF THE HYPOTHALAMIC VENTROMEDIAL AND ARCuate NUCLEI AND THE CIRCUMVENTRICULAR ORGANS IN THE RAT. Palkovits M, Brownstein MJ, Arimura A, Sato H, Schally V, Kizer JS *Brain Res* 109: 430-4, 11 Jun 76 (Eng) \*DL/77APR458

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SUPPRESSION OF MITOCHONDRIAL RESPONSE TO HEPATECTOMY IN DIABETIC RATS. Ozawa K, Yamada T, Yamamoto M, Sato M, Honjo I *Life Sci* 19: 1865-72, 15 Dec 76 (Eng) DL/77APR213

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PROCEEDINGS: MOLECULAR PROPERTIES OF MICROSOMAL REDOX PROTEINS AND THEIR INTERACTIONS IN PHOSPHOLIPID BILAYER MEMBRANES. Sato R *J Biochem (Tokyo)* 79: 50P, Apr 76 (Eng) \*DL/77APR556

ANIMAL EXPERIMENTS (analysis); BINDING SITES; CYTOCHROMES (metabolism); EGG YOLK; LIPOSOMES; MEMBRANES (physiology); MEMBRANES, ARTIFICIAL; MICELLES; MICROSOMES (physiology); MITOCHONDRIA (physiology); MODELS, BIOLOGICAL; OXIDATION-REDUCTION; PHOSPHOLIPIDS (metabolism); PROTEIN BINDING; PROTEINS (physiology).

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[PACEMAKER TREATMENT OF ARRHYTHMIAS IN DIABETIC AND NON-DIABETIC PATIENTS] Hohler H, Reis HE, Saueressig U, Jahnke K *Med Welt* 27: 2295-7, 19 Nov 76 (Ger) DL/77APR217

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[NYKTOMETRIC EXAMINATIONS ON EYE FUNCTION IN DIABETIC RETINOPATHY (AUTHORS TRANSL)] Schulze DP, Freese R, Sauerwald R *Klin Monatsbl Augenheilkd* 169: 369-72, Sep 76 (Ger) DL/77APR192

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[REGULATION OF ENERGY BALANCE IN CONSTITUTIONAL OBESITY] PP. 58-71. Tremolieres J, Carre L, Sautier C, Flament C *Ino Jequier E, ed. Regulation du bilan d'energie chez l'homme. Geneve, Editions Medecine et Hygiene, 1975. QU 125 R344 1974. (Fre) \*DL/77APR582*

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CAN THE FREQUENCY OF MYOCARDIAL INFARCTION BE REDUCED DURING CORONARY ARTERY OPERATIONS. Ray JF 3d, Tewksbury DA, Myers WO, Wenzel FJ, Sautter RD *Ann Thorac Surg* 23: 14-9, Jan 77 (Eng) DL/77APR400

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KINETIC MEASUREMENT OF GLUCOSE WITH A CENTRIFUGAL ANALYZER; HEXOKINASE AND GLUCOSE OXIDASE PROCEDURES COMPARED. Sonowane M, Savory J, Cross RE, Heintges MG, Chester B *Clin Chem* 22: 1100-1, Jul 76 (Eng) \*DL/77APR481

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MECHANISM OF HYPOGLYCEMIC CATARACT FORMATION IN THE RAT LENS. II. FURTHER STUDIES ON THE ROLE OF HEXOKINASE INSTABILITY. Chylack LT Jr, Schaefer FL *Invest Ophthalmol* 15: 519-28, Jul 76 (Eng) \*DL/77APR545

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INCREASE IN BASAL AND THYROTROPIN-RELEASING HORMONE (TRH)-STIMULATED SECRETION OF THYROTROPIN (TSH) BY PASSIVE IMMUNIZATION WITH ANTISERUM TO SOMATOSTATIN IN RATS. Arimura A, Schally AV *Endocrinology* 98: 1069-72, Apr 76 (Eng) \*DL/77APR505

EFFECT OF GROWTH HORMONE-RELEASE INHIBITING HORMONE ON HORMONES STIMULATING EXOCRINE PANCREATIC SECRETION. Konturek SJ, Tasler J, Obtulowicz W, Coy DH, Schally AV *J Clin Invest* 58: 1-6, Jul 76 (Eng) \*DL/77APR566

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[NORMOGRAM STUDY: REPRESENTATIVE DATA ON THE STATE OF HEALTH OF MALE INDUSTRIAL WORKERS IN NORTHERN SWITZERLAND. III. PHYSIOLOGICAL AND BIOCHEMICAL FINDINGS] Biener K, Forest F, Schar M *Schweiz Med Wochenschr* 106: 1413-7, 9 Oct 76 (Ger) DL/77APR298

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INSULIN-TREATMENT OF DIABETIC RATS: EFFECTS ON DUODENAL CALCIUM ABSORPTION. Schneider LE, Nowosielski LM, Schiedl HP *Endocrinology* 100: 67-73, Jan 77 (Eng) DL/77APR49

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INFLUENCE OF DIFLALONE ON TOLBUTAMIDE TEST AND I.V. GLUCOSE TOLERANCE TEST. Scherak O, Weissel M,

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[ABNORMAL GALACTORRHEA AND THE AMENORRHEA-GALACTORRHEA SYNDROME] Schermann J *AMB* 22: 392-8, Oct 76 (For) DL/77APR282

AMENORRHEA (diagnosis, etiology); CHIARI-FROMMEL SYNDROME (diagnosis, etiology); CHLORPROMAZINE (pharmacodynamics); FEMALE; GALACTORRHEA (diagnosis, etiology); HUMAN; HYPOTHYROIDISM (complications); INSULIN (pharmacodynamics); LACTATION DISORDERS (diagnosis); PITUITARY GLAND (physiopathology); PITUITARY NEOPLASMS (complications); PREGNANCY; PROLACTIN (secretion); STIMULATION, CHEMICAL; THYROTROPIN-RELEASING HORMONE (pharmacodynamics, secretion); THYROTROPIN (secretion).

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THE EFFECT OF HORMONES ON SYNTHESIS OF THE REGION LINKING CHONDROITIN SULFATE TO PROTEIN. Schiller S *Biochim Biophys Acta* 451: 457-64, 21 Dec 76 (Eng) DL/77APR3

ALLOXAN DIABETES (metabolism); ANIMAL; CARTILAGE (drug effects, metabolism); CHONDROITIN SULFATES (metabolism); CHONDROITIN (analogs & derivatives); GLYCOPROTEINS (biosynthesis); HORMONES (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); HYPOPHYSECTOMY; INSULIN (pharmacodynamics); MALE; PENTOSYLTRANSFERASES (metabolism); RATS; SOMATOTROPIN (pharmacodynamics); TESTOSTERONE (pharmacodynamics); THYROIDECTOMY; THYROXINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADENOSINE 3,5-CYCLOC MONOPHOSPHATE IN ADIPOSE TISSUE OF DIABETIC RATS. Schimmel RJ *Biochim Biophys Acta* 451: 363-71, 21 Dec 76 (Eng) DL/77APR1

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ALLOXAN DIABETES (metabolism); ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS (immunology, metabolism); EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (blood, metabolism); GLUCAGON (blood); IMMUNE SERUMS; KINETICS; MALE; RATS; THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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DIET AND ENERGY-BALANCE IN OBESITY (A METHODOLOGICAL APPROACH). PP. 72-83. Irsigler K, Heitkamp H, Schlick W, Schmid P *Ino Jequier E, ed. Regulation du bilan d'energie chez l'homme. Geneve, Editions Medecine et Hygiene, 1975. QU 125 R344 1974. (Eng) \*DL/77APR586*

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[NUTRITION AND ARTERIOSCLEROSIS—CURRENT PROBLEMS] Schlietf G, Oster P, Stiehl A *Verh Dtsch Ges Inn Med* 81: 869-72, 1975 (Ger) \*DL/77APR701

ARTERIOSCLEROSIS (etiology); DIET, ATHEROGENIC; HUMAN; HYPERLIPEMIA (complications).

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[LONG-TERM DIABETES—A SPECIAL FORM OF DIABETES] Panzram G, Schmechel H, Zabel-Langhennig R, Adolph W, Pibetarek D, Pense G *Endokrinologie* 68: 104-11, Oct 76 (Ger) DL/77APR58

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DIET AND ENERGY-BALANCE IN OBESITY (A METHODOLOGICAL APPROACH). PP. 72-83. Irsigler K, Heitkamp H, Schlick W, Schmid P *Ino Jequier E, ed. Regulation du bilan d'energie chez l'homme. Geneve, Editions Medecine et Hygiene, 1975. QU 125 R344 1974. (Eng) \*DL/77APR586*

### Schmidt R

[BEHAVIOR OF THE METABOLISM IN GASTRIC PATIENTS DURING A 4-DAY-LONG POSTOPERATIVE COMPLETE PARENTERAL FEEDING WITH AMINO ACIDS AND A GLUCOSE-LEVULOSE-XYLITOL COMBINATION SOLUTION] Peter K, Butz R, Greiner E, Kersting KH, Martin E, Mast D, Schmidt R, Schmitz ER *Z Ernahrungswiss* 14: 324-32, Dec 75 (Ger) \*DL/77APR689

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[BEHAVIOR OF THE METABOLISM IN GASTRIC PATIENTS DURING A 4-DAY-LONG POSTOPERATIVE COMPLETE PARENTERAL FEEDING WITH AMINO ACIDS AND A GLUCOSE-LEVULOSE-XYLITOL COMBINATION SOLUTION] Peter K, Butz R, Greiner E, Kersting KH, Martin E, Mast D, Schmidt R, Schmitz ER *Z Ernahrungswiss* 14: 324-32, Dec 75 (Ger) \*DL/77APR689

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[ALTERNATING LOW CALORY DIETS (200 TO 1000 CALORIES), THEIR VALUE IN THE TREATMENT OF RESISTANT OBESITY] Mirouze J, Mary P, Schmouker Y, Lapinski H, Chaudard C, Prunac N *Sem Hop Paris* 52: 2255-61, 23 Nov 76 (Fre) DL/77APR309

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[DIFFERENT CALORIC INTAKE IN 75 LOW BIRTH WEIGHTS: EFFECT ON WEIGHT GAIN, BLOOD SUGAR, SERUM PROTEIN, AND SERUM BILIRUBIN (AUTHORS TRANSL)] Weber HP, Kowalewski S, Gilje A, Mollering M, Schnauffer I *Eur J Pediatr* 122: 207-16, 8 Jun 76 (Ger) \*DL/77APR513

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INSULIN-TREATMENT OF DIABETIC RATS: EFFECTS ON DUODENAL CALCIUM ABSORPTION. Schneider LE, Nowosielski LM, Schiedl HP *Endocrinology* 100: 67-73, Jan 77 (Eng) DL/77APR49

ANIMAL; CALCIUM (metabolism); DIABETES MELLITUS (chemically induced, metabolism); DIHYDROXYCHOLECALCIFEROLS (metabolism); DUODENUM (metabolism); INSULIN (pharmacodynamics); INTESTINAL ABSORPTION (drug effects); KIDNEY (drug effects); MALE; RATS; STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[CHANGES IN THE METABOLITES OF FAT AND CARBOHYDRATE METABOLISM IN ACUTE INTOXICATIONS] Schnellbacher E, Kremer GJ, Atzpodi W, Okonek S, Muller KA, Schuster HP *Verh Dtsch Ges Inn Med* 81: 695-9, 1975 (Ger) \*DL/77APR692

ACUTE DISEASE; ADULT; CARBOHYDRATES (metabolism); HUMAN; HYPNOTICS AND SEDATIVES (poisoning); LIPIDS (metabolism);



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Sekine M

MIDDLE AGE; POISONING (metabolism); UNCONSCIOUSNESS (enzymology).

## Schoenbaum S

VERTEBRAL OSTEOMYELITIS IN INSULIN-DEPENDENT DIABETICS. Cooppan R, Schoenbaum S, Younger MD, Freidberg S, Delia J. *S Afr Med J* 50: 1993-6, 20 Nov 76 (Eng) DL/77APR315

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THE EFFECTS OF THE PYRROLIZIDINE ALKALOID, HELIOTRINE, AND NICOTINAMIDE ON THE CONCENTRATION OF PLASMA INSULIN AND BLOOD GLUCOSE IN THE RAT. Schoental R, Frayn KN. *Biochem Soc Trans* 4: 649-50, 1976 (Eng) DL/77APR77

ANIMAL; BLOOD SUGAR (metabolism); INSULIN (blood); MALE; NICOTINAMIDE (pharmacodynamics); PYRROLIZIDINE ALKALOIDS (pharmacodynamics); RATS.

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[REGULATION OF LIPID AND CARBOHYDRATE METABOLISM OF THE HEART BY CARBOCROMEN (AUTHORS TRANSL)] Schraven E. *Arzneim Forsch* 26: 197-200, Feb 76 (Ger) \*DL/77APR758

ANIMAL EXPERIMENTS (analysis); CHROMONAR (pharmacodynamics); COUMARINS (pharmacodynamics); DEPRESSION, CHEMICAL; DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); HEART (drug effects); MALE; METHYLGLUCOSIDES (metabolism); METHYLGLYCOSIDES (metabolism); MICE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PALMITATES (metabolism); PALMITIC ACIDS (metabolism); PHOSPHOLIPIDS (metabolism); RATS; TRIGLYCERIDES (metabolism).

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THE INTERACTION OF SECRETIN WITH PANCREATIC MEMBRANES. Milutinovic S, Schulz I, Rosselin G. *Biochim Biophys Acta* 436: 113-27, 4 Jun 76 (Eng) \*DL/77APR437

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[NYKTOMETRIC EXAMINATIONS ON EYE FUNCTION IN DIABETIC RETINOPATHY (AUTHORS TRANSL)] Schulze DP, Freese R, Sauerwald R. *Klin Monatsbl Augenheilkd* 169: 369-72, Sep 76 (Ger) DL/77APR192

ADOLESCENCE; ADULT; DARK ADAPTATION; DIABETIC RETINOPATHY (physiopathology); ENGLISH ABSTRACT; HUMAN; MIDDLE AGE; ORIENTATION; TIME FACTORS.

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ADULT; AGED; ARTERIOSCLEROSIS (complications); ASCORBIC ACID (therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); DIABETIC RETINOPATHY (complications, drug therapy); HUMAN; MIDDLE AGE; PERIODONTITIS (drug therapy, etiology); THYROIDINE (therapeutic use); VITAMIN B 12 (therapeutic use).

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EFFECTS OF DEXAMETHASONE ON THYROTROPIN AND PROLACTIN PLASMA LEVELS IN RATS. Schwinn G, von zur Muhlen A, Warnecke U. *Acta Endocrinol (Kbh)* 82: 486-91, Jul 76 (Eng) \*DL/77APR710

ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; DEXAMETHASONE (pharmacodynamics); MALE; PITUITARY GLAND, ANTERIOR (secretion); PROLACTIN (blood, secretion); RATS; THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (blood); THYROTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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INHIBITION OF ALPHA-GLYCEROPHOSPHATE DEHYDROGENASE ACTIVITY IN HUMAN PLACENTAL MITOCHONDRIA BY PHOSPHOENOLPYRUVATE. Swierczynski J, Scislowski P, Aleksandrowicz Z. *FEBS Lett* 64: 303-6, 1 May 76 (Eng) \*DL/77APR530

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THE USE OF A CENTRIFUGAL FAST ANALYZER FOR BIOCHEMICAL AND IMMUNOLOGICAL ANALYSIS. Burtis CA, Tiffany TO, Scott CD. *Methods Biochem Anal* 23: 189-248, 1976 (Eng) [84] DL/77APR219

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ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DEXAMETHASONE (pharmacodynamics); FEMALE; LABOR, INDUCED (veterinary); MINERALS (blood); POTASSIUM (blood); PREGNANCY; SHEEP (blood, physiology); UREA (blood).

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MG2& AND THE PERMEABILITY OF HEART MITOCHONDRIA TO MONOVALENT CATIONS. Wehrle JP, Jurkowitz M, Scott KM, Brierley GP. *Arch Biochem Biophys* 174: 313-23, \*May 76 (Eng) \*DL/77APR741

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CARDIOVASCULAR RISK FACTORS. PP. 109-20. Gotto AM Jr, Foreyt JP, Scott LW. *Inf Wil-*

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PREVALENCE OF HEPATITIS B SURFACE ANTIGEN AND ANTIBODY IN WHITE AND BLACK PATIENTS WITH DIABETES MELLITUS. Kew MC, MacKay ME, Mindel A, Joffe BI, Kusman B, MacNab GM, Seftel HC. *J Clin Microbiol* 4: 467-9, Dec 76 (Eng) DL/77APR162

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ANIMAL; ARGINASE (metabolism); CYTOSOL (metabolism); INSULIN (metabolism); KINETICS; LIVER (cytology, metabolism); LYSOSOMES (enzymology, metabolism); MODELS, BIOLOGICAL; PEPTIDE HYDROLASES (metabolism); PROTEIN DENATURATION; PROTEINS (metabolism); RATS; REVIEW; SUCRASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); VACUOLES (metabolism).

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ON THE TRANSPORT OF SUGARS AND AMINO ACIDS BY NEWBORN KIDNEY: USE OF ISOLATED PROXIMAL TUBULE. Roth KS, Hwang SM, Yudkoff M, Segal S. *Life Sci* 18: 1125-9, 15 May 76 (Eng) \*DL/77APR647

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CALCIUM AND SECRETION: DISTINCTION BETWEEN TWO POOLS OF GLUCOSE-SENSITIVE CALCIUM IN PANCREATIC ISLETS. Hellman B, Sehlin J, Taljedal IB. *Science* 194: 1421-3, 24 Dec 76 (Eng) DL/77APR301

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[PLASMA LIPOPROTEINS AND ATHEROSCLEROSIS] Seidel M. *Verh Dtsch Ges Inn Med* 81: 865-8, 1975 (Ger) \*DL/77APR700

ARTERIOSCLEROSIS (blood); ATHEROSCLEROSIS (blood, etiology); HUMAN; HYPERLIPIDEMIA (complications); LIPOPROTEINS (blood).

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CARBOHYDRATES (metabolism); CHILD, PRESCHOOL; HUMAN; LIPODYSTROPHY (congenital, diagnosis); MALE.

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DIET, REDUCING; DIETARY PROTEINS (metabolism); FEMALE; HUMAN; MONOGRAPH (mortality); OBESITY (diet therapy, metabolism); OXYGEN CONSUMPTION; PROTEINS (metabolism); TYROSINE (metabolism).

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ADULT; AGED; CHRONIC DISEASE; CULTURE MEDIA; DIABETES MELLITUS (immunology); DOSE-RESPONSE RELATIONSHIP, IMMUNOLOGIC; FEMALE; HEAT; HUMAN; LEUKOCYTE CULTURE TEST, MIXED; LYMPHOCYTE TRANSFORMATION; MALE; MIDDLE AGE; PHYTOMITOGENS (pharmacodynamics); PLANT AGGLUTININS (pharmacodynamics); TIME FACTORS; UREMIA (immunology).

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BLOOD SUGAR (metabolism); DIABETES MELLITUS (complications); FRIEDREICH'S ATAXIA (blood, complications); HUMAN; INSULIN (blood).

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANTIGEN-ANTIBODY REACTIONS; AZIDES (pharmacodynamics);

CELL MEMBRANE (ultrastructure); CHLORPROMAZINE (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); ENDOCYTOSIS (drug effects); ERYTHROCYTES (ultrastructure); HEMOLYSIS (drug effects); HUMAN; LYMPHOCYTES (immunology, ultrastructure); LYSOLECITHIN (pharmacodynamics); MICE; NITROPHENOLS (pharmacodynamics); OLEIC ACIDS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; ATTITUDE; COMPARATIVE STUDY; HUMAN; INSULIN (administration & dosage); SYRINGES.

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AUTOANALYSIS; BLOOD CHEMICAL ANALYSIS (instrumentation, methods); BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CARBON DIOXIDE (blood); CHLORIDES (blood); HUMAN; MICROCHEMISTRY; POTASSIUM (blood); SODIUM (blood).

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DIABETES MELLITUS (complications); ENGLISH ABSTRACT; GLAUCOMA (diagnosis, etiology); HUMAN.

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ALCOHOLISM (complications); BLOOD SUGAR; CHOLESTEROL (blood, metabolism); FASTING; FEMALE; GLUCAGON (blood); HUMAN; HYDROXYMETHYLGLUTARYL

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Smith CJ

COA REDUCTASES (metabolism); INSULIN (blood); LIVER CIRRHOSIS (etiology, surgery); MALE; MIDDLE AGE; PORTACAVAL ANASTOMOSIS; TRIGLYCERIDES (blood).

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CHROMATOGRAPHY, GEL; DIABETES MELLITUS (drug therapy); ENGLISH ABSTRACT; HUMAN; INSULIN (analysis, isolation & purification, therapeutic use).

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ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); CELL MEMBRANE (drug effects, metabolism, ultrastructure); GLUCOSE (metabolism); GLYCOURIA; KIDNEY (drug effects, metabolism); KINETICS; MATHEMATICS; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; MOLECULAR MODELS; PHLORHIZIN (pharmacodynamics); POTASSIUM (pharmacodynamics); REVIEW; SODIUM (pharmacodynamics).

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ANIMAL; CORONARY CIRCULATION (drug effects); DOGS; FEMALE; GLUCAGON (antagonists & inhibitors, pharmacodynamics); HEART RATE (drug effects); HEART (drug effects); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); VERATRUM ALKALOIDS (pharmacodynamics).

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ALLOSTERIC REGULATION; ANIMAL; CELL MEMBRANE (metabolism); CHICKENS; HUMAN; INSULIN (metabolism); KINETICS; LIVER (metabolism); LYMPHOCYTES (metabolism); RATS; RECEPTORS, INSULIN (metabolism); SPECIES SPECIFICITY; SWINE.

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ADENOSINE DIPHOSPHATE (analysis); ADENOSINE TRIPHOSPHATE (analysis); BLOOD PLATELETS (metabolism, physiology, ultrastructure); CALCIUM (metabolism); CYTOPLASM (metabolism); ELECTRON PROBE MICROANALYSIS; FREEZE DRYING; HUMAN; MINERALS (analysis); ORGANOIDS (drug effects, metabolism); PHOSPHORUS (metabolism); STAINS AND STAINING; TIME FACTORS.

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CELL MEMBRANE (metabolism); CHOLESTEROL; *ESCHERICHIA COLI* (metabolism); FATTY ACIDS, UNSATURATED; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; PHOSPHATIDYL CHOLINE; SPECTROMETRY.

FLUORESCENCE; SPECTROPHOTOMETRY; SPECTROPHOTOMETRY, ULTRAVIOLET; TEMPERATURE; THERMODYNAMICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ACETOHEXAMIDE (adverse effects); AGED; BLOOD SUGAR (metabolism); CASE REPORT; HUMAN; HYPOGLYCEMIA (chemically induced, therapy); MALE; PERITONEAL DIALYSIS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADULT; DIABETES MELLITUS (diet therapy); DIABETIC DIET; DIET, REDUCING; FEMALE; HUMAN; MALE; METHODS; MIDDLE AGE; PATIENTS (education).

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PHYSICAL CHEMISTRY OF THE LIPIDS OF HUMAN ATHEROSCLEROTIC LESIONS. DEMONSTRATION OF A LESION INTERMEDIATE BETWEEN FATTY STREAKS AND ADVANCED PLAQUES. Katz SS, Shipley GG, Small DM *J Clin Invest* 58: 200-11, Jul 76 (Eng) \*DL/77APR567

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[BULLOSIS DIABETICORUM] Szymczykowa B, Smigla K, Pieniazek I *Przegl Dermatol* 63: 851-7, Nov-Dec 76 (Pol) DL/77APR278

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ANIMAL EXPERIMENTS (analysis); DEPRESSION, CHEMICAL; FATTY ACIDS (pharmacodynamics); HUMAN; IMMUNOSUPPRESSION; LINOIC ACIDS (pharmacodynamics); LYMPHOCYTES (drug effects); RATS.

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ANIMAL EXPERIMENTS (analysis); ANIMAL FEED; BLOOD SUGAR (analysis); CHICKENS (blood, physiology); FEEDING BEHAVIOR (drug effects); HEART; HEPTULOSES (pharmacodynamics); INJECTIONS; INJECTIONS, INTRAPERITONEAL; MANNOHEPTULOSE (administration & dosage, pharmacodynamics).

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EFFECTS OF MONOSODIUM GLUTAMATE ADMINISTRATION IN THE NEONATAL PERIOD ON THE DIABETIC SYNDROME IN KK-MICE. Cameron DP, Poon TK, Smith GC *Diabetologia* 12: 621-6, Dec 76 (Eng) DL/77APR103

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DIABETES IN THE NIGERIAN AFRICAN. II. AUTOPSY STUDIES. Smith JA, Adetuyibi A *Trop Geogr Med* 28: 159-64, Sep 76 (Eng) DL/77APR332  
ADOLESCENCE; ADULT; AGED; CHILD; CORONARY DISEASE (pathology); DIABETES MELLITUS (pathology); FEMALE; HUMAN; MALE; MIDDLE AGE; NIGERIA.

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PROSTAGLANDINS AND PRECURSORS IN PLATELET FUNCTION. Smith JB, Ingeman CM, Silver MJ *Ciba Found Symp* 35: 207-24, 1975 (Eng) \*DL/77APR493  
ADENOSINE DIPHOSPHATE (pharmacodynamics); ARACHIDONIC ACIDS (metabolism); ASPIRIN (pharmacodynamics); BIOTRANSFORMATION; BLOOD PLATELETS (physiology); HUMAN; IN VITRO; INDOMETHACIN (pharmacodynamics); MALONDIALDEHYDE (metabolism); PEROXIDES (pharmacodynamics); PLATELET AGGREGATION (drug effects); PROSTAGLANDINS (biosynthesis, pharmacodynamics, physiology); REVIEW; SEROTONIN (metabolism); SPECIES SPECIFICITY; THROMBIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ALPHA RHYTHM; BETA RHYTHM; CENTRAL NERVOUS SYSTEM (physiopathology); CHRONIC DISEASE; DIABETES MELLITUS (physiopathology); DIABETIC COMA (physiopathology); ELECTROENCEPHALOGRAPHY; ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; THETA RHYTHM; TUBERCULOSIS, PULMONARY (physiopathology).

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SOMATOMEDIN PRODUCTION IN THE NEONATAL RAT. Stuart MC, Lazarus L, Moore SS, Smythe GA *Horm Metab Res* 8: 442-5, Nov 76 (Eng) DL/77APR128

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CASE REPORT; CELIAC ARTERY (radiography); FEMALE; HUMAN; ISLET CELL TUMOR (radiography); LIVER NEOPLASMS (radiography); MIDDLE AGE; NEOPLASM METASTASIS; PANCREATIC NEOPLASMS (radiography).

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INACTIVATION OF THE PHOSPHOENOL-PYRUVATE-DEPENDENT PHOSPHOTRANSFERASE SYSTEM IN VARIOUS SPECIES OF BACTERIA BY VINYLGLYCOLIC ACID. Snyder MA, Kaczorowski GJ, Barnes EM Jr, Walsh C *J Bacteriol* 127: 671-3, Jul 76 (Eng) \*DL/77APR553  
BACTERIA (enzymology, metabolism); CELL MEMBRANE (enzymology, metabolism); CROTONIC ACIDS (metabolism); DEOXYGLUCOSE (metabolism); ENZYME REPRESSION; GLUCOSE (metabolism); HYDROXY ACIDS (pharmacodynamics); METHYLGLUCOSIDES (metabolism); PHOSPHOENOLPYRUVATE (metabolism); PHOSPHOTRANSFERASES (metabolism); SPECIES SPECIFICITY; SUCROSE (metabolism); THIOPALACTOSIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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ADRENAL ACTIVITY DURING NORMAL GLUCOSE TOLERANCE. Sober AJ, Ruder HJ, Sode J *Acta Endocrinol (Kbh)* 84: 115-8, Jan 77 (Eng) DL/77APR359  
ADOLESCENCE; ADRENAL GLANDS (physiology); ADULT; CATECHOLAMINES (urine); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYDROCORTISONE (blood); INSULIN (blood); MALE; TIME FACTORS.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); BINDING SITES; BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism, pharmacodynamics); CELL MEMBRANE (metabolism); ENZYME ACTIVATION (drug effects); ISOPROTERENOL (pharmacodynamics); KINETICS; MYOCARDIUM (metabolism); PROTEIN KINASE (metabolism, physiology); SARCOLEMMAS (metabolism).

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ANIMAL; DOGS; FLUORESCENT ANTIBODY TECHNIQUE; GASTRIC MUCOSA (analysis, ultrastructure); GLUCAGON (analysis); MICROSCOPY, ELECTRON.

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CASE REPORT; DIABETES MELLITUS (complications); EMPHYSEMA (complications,

radiography); ENGLISH ABSTRACT; FEMALE; HUMAN; MIDDLE AGE; PYELONEPHRITIS (complications, radiography).

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ADULT; COMPARATIVE STUDY; DIABETES MELLITUS (surgery); HEMODIALYSIS; HUMAN; KIDNEY (transplantation); MIDDLE AGE; TIME FACTORS; TRANSPLANTATION, HOMOLOGOUS.

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ALLOSTERIC REGULATION; DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLYCEROLPHOSPHATE DEHYDROGENASE (antagonists & inhibitors); HUMAN; KINETICS; MITOCHONDRIA (enzymology); PHOSPHOENOLPYRUVATE (pharmacodynamics); PLACENTA (enzymology, ultrastructure); PREGNANCY.

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HUMAN; METHYLDOPA (therapeutic use); SOMATOTROPIN (blood).

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CARBOHYDRATE ISOMERASES; DIFFUSION; FRUCTOSE (metabolism); GELS; GLUCOSE (metabolism); KINETICS; MATHEMATICS; METHODS; MODELS, CHEMICAL; MONOGRAPH (mortality); STREPTOMYCES (enzymology, metabolism); TEMPERATURE.

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ADULT; CAPILLARIES (pathology); DIABETIC RETINOPATHY (pathology); ENGLISH ABSTRACT; FEMALE; FLUORESCENCE ANGIOGRAPHY; HUMAN; MALE; MIDDLE AGE; PREDIABETIC STATE (pathology); RETINAL VESSELS (pathology).

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DIABETES MELLITUS (blood); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); HUMAN; INSULIN (blood); NICOTINIC ACIDS (pharmacodynamics).

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ALPHA MACROGLOBULINS (analysis); DIABETIC ANGIOPATHIES (blood); ENGLISH ABSTRACT; GLYCOPROTEINS (blood); HUMAN.

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AMINOLEVULINIC ACID (metabolism); ANIMAL; ANIMALS, NEWBORN (metabolism); BILIRUBIN (biosynthesis); BODY WEIGHT (drug effects); FASTING; GLUCAGON (pharmacodynamics); HEME (metabolism); HYDROXYLASES (metabolism); LIVER (anatomy & histology, enzymology, metabolism); ORGAN WEIGHT (drug effects); RATS; STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); FEMALE; GLUCOSE (metabolism); LIVER GLYCOGEN (metabolism); MALE; MUSCLES (metabolism); SEASONS; SNAKES (metabolism); THYROIDECTOMY.

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BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CARBONIC ANHYDRASE (metabolism); CATALASE (metabolism); DIFFUSION; ENZYMES (metabolism); GLUCOSIDASES (metabolism); HEXOKINASE (metabolism); HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LASERS; MACROMOLECULAR SYSTEMS; MATHEMATICS; MEMBRANE POTENTIALS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MONOGRAPH (mortality); PHOSPHATASES (metabolism); PROTEIN BINDING; REVIEW; SOLUBILITY; SPECTRUM ANALYSIS; UREASE (metabolism); XANTHINE OXIDASE (metabolism).

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BIOLOGICAL TRANSPORT; ELECTRODES; ENZYMES (metabolism); GLUCOSE (metabolism); IN VITRO; KINETICS; MEMBRANES, ARTIFICIAL; METHODS; MODELS, BIOLOGICAL; MODELS, CHEMICAL; MONOGRAPH (mortality); TIME FACTORS.

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ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT; FEMALE; HYPOPHYSECTOMY; INSULIN (blood); LIVER (enzymology); ORGAN WEIGHT; OXIDOREDUCTASES (metabolism); PROTEIN DISULFIDE REDUCTASE (GLUTATHIONE) (metabolism); RATS.

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RATS; SECRETIN (pharmacodynamics); SODIUM FLUORIDE (pharmacodynamics).

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ADOLESCENCE; ADULT; AGED; APPETITE (drug effects); BLOOD PRESSURE (drug effects); BODY WEIGHT (drug effects); CLINICAL RESEARCH; COMPARATIVE STUDY; DOSAGE FORMS; DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG TOLERANCE; FEMALE; FENFLURAMINE (administration & dosage, adverse effects); HUMAN; MALE; MIDDLE AGE; OBESITY (drug therapy); PATIENT COMPLIANCE; PLACEBOS; PULSE (drug effects).

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ANIMAL; CHROMIUM; GLUCOSE TOLERANCE TEST; RATS; SACCHAROMYCES.

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ALLOXAN (pharmacodynamics); ANIMAL; ARGININE (pharmacodynamics); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); LEUCINE (pharmacodynamics); PERFUSION; RATS.

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ALLOXAN (pharmacodynamics); ANIMAL; CELL MEMBRANE PERMEABILITY (drug effects); GLUCOSE (pharmacodynamics); GUINEA PIGS; HORSERADISH PEROXIDASE (metabolism); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, ultrastructure); MALE; MICROSCOPY, ELECTRON; RATS.

DIFFERENTIAL EFFECT OF ALPHA- AND BETA-D-GLUCOSE ON PROTECTION AGAINST ALLOXAN TOXICITY IN ISOLATED ISLETS. Tomita T, Kobayashi M *Biochem Biophys Res Commun* 73: 791-8, 6 Dec 76 (Eng) DL/77APR411

ALLOXAN (toxicity); ANIMAL; GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); ISOMERISM; MALE; PERFUSION; RATS; STRUCTURE-ACTIVITY RELATIONSHIP.

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REGULATION OF LIPOGENESIS BY INSULIN AND FREE FATTY ACIDS IN PERFUSED RAT LIVER. Topping DL, Mayes FA *Biochem Soc Trans* 4: 717, 1976 (Eng) DL/77APR79

ANIMAL; FATTY ACIDS (biosynthesis); FATTY ACIDS, NONESTERIFIED (pharmacodynamics); INSULIN (pharmacodynamics); LIPIDS (biosynthesis); LIPOPROTEINS, VLDL (biosynthesis); LIVER (drug effects, metabolism); MALE; RATS; TRIGLYCERIDES (biosynthesis).

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[SEVERAL RISK FACTORS IN PATIENTS WITH ISCHEMIC HEART DISEASE AND HYPERTENSION] Ilinov P, Popnikolov S, Torbova S *Vutr Boles* 15: 11-7, 1976 (Bul) DL/77APR341

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[PERHEXILENE MALEATE AND METABOLIC DISORDERS] Leutenegger M, Touche M, Caron J, Hecart J, Choisy H, Bruna AC, Gross A *Ann Med Interne (Paris)* 127: 611-4, AUG-SEP 76 (Fre) DL/77APR385

## Toussaint D

EARLY DIAGNOSIS OF RETINOPATHY IN JUVENILE DIABETES BY FLUORESCIN ANGIOGRAPHY. Toussaint D, Quactaert M, Dorchy H, Loch H *Acta Paediatr Belg* 29: 177-80, Jul-Sep 76 (Eng) DL/77APR363



## Traisman HS

ADOLESCENCE; CHILD; COMPARATIVE STUDY; DIABETIC RETINOPATHY (diagnosis); FEMALE; FLUORESCENCE ANGIOGRAPHY; HUMAN; INFANT; MALE; OPHTHALMOSCOPY; RECURRENCE; TIME FACTORS.

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ACIDOSIS, DIABETIC (drug therapy); BICARBONATES (therapeutic use); HUMAN.

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INSULIN REGULATION OF AMINO ACID TRANSPORT IN MESENCHYMAL CELLS FROM AVIAN AND MAMMALIAN TISSUES. Guidotti GG, Borghetti AF, Gazzola GC, Tramacere M, Dallasta V *Biochem J* 160: 281-6, 15 Nov 76 (Eng) DL/77APR406

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THE INSULIN-LIKE EFFECTS OF A GLUCOSE METABOLITE (BIS-PEP) FROM MUSCLE AND ERYTHROCYTES. Kuis van Heijningen AJ, Rath E, Treijtel B, Visser N, Wientjes C, Beiloff-Chain A *FEBS Lett* 72: 58-62, 15 Dec 76 (Eng) DL/77APR66

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EFFECT OF 6-HYDROXYDOPAMINE ON DIET-INDUCED HYPERLIPIDEMIA AND ATHEROSCLEROSIS IN THE RAT. Leloirier J, Tremblay M, de Champlain J, Gattereau A, Davignon J *Can J Physiol Pharmacol* 54: 83-5, Apr 76 (Eng) \*DL/77APR468

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[REGULATION OF ENERGY BALANCE IN CONSTITUTIONAL OBESITY] PP. 58-71. Tremolieres J, Carre L, Sautier C, Flament C *In: Jequier E, ed. Regulation du bilan d'energie chez l'homme*. Geneve, Editions Medecine et Hygiene, 1975. QU 125 R344 1974. (Fre) \*DL/77APR582

ADIPOSE TISSUE (metabolism); ADULT; BASAL METABOLISM; BLOOD SUGAR (metabolism); DIET, REDUCING; ENERGY METABOLISM; EXERTION; FASTING; FEMALE; HUMAN; LIPIDS (blood); MODELS, BIOLOGICAL; MONOGRAPH (mortality); OBESITY (blood, diet therapy, metabolism).

## Triebwasser JH

BODY FAT: ITS RELATIONSHIP TO CORONARY HEART DISEASE, BLOOD PRESSURE, LIPIDS AND OTHER RISK FACTORS MEASURED IN A LARGE MALE POPULATION. Weinsier RL, Fuchs RJ, Kay TD, Triebwasser JH, Lancaster MC *Am J Med* 61: 815-24, Dec 76 (Eng) DL/77APR375

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[EPIDEMIOLOGICAL STUDIES ON PREGNANCY ABNORMALITIES IN DIABETIC WOMEN AND CONDITION OF THEIR NEWBORN INFANTS (AUTHORS TRANSL)] Trzeciak B *Przegl Lek* 30: 845-7, 1976 (Pol) DL/77APR280

ADOLESCENCE; ADULT; BIRTH WEIGHT; ENGLISH ABSTRACT; FEMALE; FETAL DEATH (etiology); HUMAN; HYDRAMNIOS (etiology); INFANT, NEWBORN; MATERNAL-FETAL EXCHANGE; MIDDLE AGE; PREGNANCY IN DIABETES (complications); PREGNANCY TOXEMIA (etiology); PREGNANCY.

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INSULIN, OBESITY, AND TRIGLYCERIDE INTERRELATIONSHIPS IN SIXTEEN CHILDREN WITH FAMILIAL HYPERTRIGLYCERIDEMIA. Glueck CJ, Mellies MJ, Srivastava L, Knowles HC Jr, Fallat RW, Tsang RC,

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ANIMAL EXPERIMENTS (analysis); CALCIUM (metabolism); ENGLISH ABSTRACT; HYDROGEN (metabolism); IN VITRO; MEMBRANES (drug effects); MITOCHONDRIA, LIVER (drug effects, metabolism); MITOCHONDRIAL SWELLING (drug effects); POTASSIUM (metabolism); RATS; THYROIDINE; TISSUE EXTRACTS (pharmacodynamics).

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EFFECTOR-RECEPTOR RELATIONS IN THE ACTION OF PROLACTIN. PP. 24-34. Turkington RW, Frantz WL, Majumder GC *In: Pastels JL, et al., ed. Human prolactin*. Amsterdam, Excerpta Medica, 1973. W3 EX89 n.308 1973. (Eng) \*DL/77APR599

ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; BINDING, COMPETITIVE; FEMALE; MAMMAE (metabolism); MICE; MONOGRAPH (mortality); PROLACTIN (metabolism, physiology); PROTEIN BINDING; RECEPTORS, HORMONE.

## Turner DF

THE EDUCATIONAL DIAGNOSIS IN NUTRITION COUNSELING FOR SERUM CHOLESTEROL REDUCTION. PP. 41-4. Jones RJ, Turner DF, Slowie LA *In: Tillotson JL, ed. Proceedings of the Nutrition-Behavioral Research Conference*. Bethesda, NIH, 1976. QU 145 N9725p 1975. (Eng) \*DL/77APR602

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REDUCTION OF SAMPLE SIZE ON THE TECHNICON SMA 6/60 CONTINUOUS-FLOW ANALYZER. Shihabi ZK, Turner JC *Clin Chem* 22: 1107-9, Jul 76 (Eng) \*DL/77APR482

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[FOOD AND HEART DISEASE] Astrup P, Crone C, Lundquist F, Tygstrup N *Ugeskr Laeger* 138: 1717-22, 5 Jul 76 (Dan) \*DL/77APR680

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[CARBOHYDRATE ADMINISTRATION AND ELECTROLYTE BALANCE IN PATIENTS UNDER INTENSIVE CARE] Bertels O, Grumeth M, Kramer G, Matzkies F, Petzoldt R, Sailer D, Tympner F, Waldherr A *Z Ernahrungswiss* 14: 309-14, Dec 75 (Ger) \*DL/77APR688

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HYPERGLYCEMIA-INDUCED HYPONATREMIA [LETTER]. Tzamaloukas AH *Can Med Assoc J* 115: 1199, 1201, 18 Dec 76 (Eng) DL/77APR27

HUMAN; HYPERGLYCEMIA (complications); HYPONATREMIA (etiology).

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IMPLANTABLE ARTIFICIAL ENDOCRINE PANCREAS UNIT USED TO RESTORE NORMOGLYCAEMIA IN THE DIABETIC RAT. Tze WJ, Wong FC, Chen LM, O'Young S *Nature* 264: 466-7, 2 Dec 76 (Eng) DL/77APR244

ANIMAL, ARTIFICIAL ORGANS; DIABETES MELLITUS (therapy); GRAFT REJECTION; ISLANDS OF LANGERHANS (immunology, transplantation); MALE; PERMEABILITY; RATS; TRANSPLANTATION, HOMOLOGOUS.

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[PREVENTIVE SCREENING IN TWO FACTORIES. I. METHODS AND RESULTS (AUTHORS TRANSL)] Rommel K, Steinhardt B, Uberla K *Klin Wochenschr* 54: 1169-75, 15 Dec 76 (Ger) DL/77APR197

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GROWTH HORMONE AND CORTISOL RESPONSES TO PSYCHOLOGICAL STRESS: COMPARISON OF NORMAL AND NEUROTIC SUBJECTS. Miyabo S, Hisada T, Asato T, Mizushima N, Ueno K *J Clin Endocrinol Metab* 42: 1158-62, Jun 76 (Eng) \*DL/77APR564

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[DIFFERENCES IN PHOSPHORYLASE ACTIVITY IN THE CHICK RETINA BETWEEN LIGHT AND DARK CONDITION (AUTHORS TRANSL)] Amemiya T, Ueno S *Acta Soc Ophthalmol Jpn* 80: 138-41, Mar 76 (Jpn) \*DL/77APR724

[ELECTRON HISTOCHEMICAL DEMONSTRATION OF PHOSPHORYLASE ACTIVITY IN THE LIVING RETINA (AUTHORS TRANSL)] Amemiya T, Ueno S *Acta Soc Ophthalmol Jpn* 80: 191-5, 1976 (Jpn) \*DL/77APR725

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EVIDENCE FOR THE PRESENCE OF GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) IN THE PANCREAS. Srikant CB, Unger RH *Endocrinology* 99: 1655-8, Dec 76 (Eng) DL/77APR56

RESPONSE OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN TO ARGININE. Patton GS, Ipp E, Dobbs RE, Orci L, Vale W, Unger RH *Life Sci* 19: 1957-9, 15 Dec 76 (Eng) DL/77APR214

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INCREASE OF SERUM GH CONCENTRATION FOLLOWING TRH INJECTION IN PATIENTS WITH PRIMARY HYPOTHYROIDISM. Hamada N, Uoi K, Nishizawa Y, Okamoto T, Hasegawa K *Endocrinol Jpn* 23: 5-10, Feb 76 (Eng) \*DL/77APR507

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HYPERGLYCAEMIA; A RISK FACTOR FOR HYPERTENSION du V. Florey C, Uppal S, Lowy C *Rev Epidemiol Sante Publique* 24: 313-9, May-Aug 76 (Eng) DL/77APR285

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RELATIONSHIP OF GLOMERULAR FILTRATION RATE AND HYPOALBUMINAEMIA TO RENAL GLUCOSE REABSORPTION. Usherti M, Andreucci VE *Proc Eur Dial Transplant Assoc* 12: 174-82, 1976 (Eng) \*DL/77APR671

ABSORPTION; CHRONIC DISEASE; COMPARATIVE STUDY; EDEMA (metabolism); GLOMERULAR FILTRATION RATE; GLOMERULONEPHRITIS (metabolism); GLUCOSE (metabolism); HUMAN; KIDNEY TUBULES, PROXIMAL (metabolism); NEPHROTIC SYNDROME (metabolism); SERUM ALBUMIN (deficiency).

## Vague J

[HORMONAL REGULATION OF THE NUMBER AND SIZE OF ADIPOCYTES] PP. 157-61.

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Vaur JL

Vague J, Rubin P, Jubelin J, Vague P, Chappuis P *Ino Jequier E, ed. Regulation du bilan d'energie chez l'homme. Geneve, Editions Medecine et Hygiene, 1975. QU 125 R344 1974. (Fre)* \*DL/77APR581

ADIPOSE TISSUE (cytology, drug effects, pathology); ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; CUSHINGS SYNDROME (drug therapy, pathology); FEMALE; HUMAN; HYDROCORTISONE (pharmacodynamics, therapeutic use); HYPOGONADISM (drug therapy, pathology); MALE; MIDDLE AGE; MONOGRAPH (mortality); PREDNISONE (pharmacodynamics, therapeutic use); TESTOSTERONE (pharmacodynamics, therapeutic use).

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[A METHOD OF STUDYING INSULIN SECRETION IN HUMANS: THE GLUCOSE STIMULATION TEST, FOLLOWED BY TOLBUTAMIDE] Vague P, Ramahandridona G, Vialettes B *Nouv Presse Med* 5: 3001-4, 25 Dec 76 (Fre) DL/77APR259

AGE FACTORS; BLOOD SUGAR (analysis); BODY WEIGHT; CHRONIC DISEASE; COMPARATIVE STUDY; DIABETES MELLITUS (physiopathology); DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (secretion); LIVER CIRRHOSIS (physiopathology); OBESITY IN DIABETES (physiopathology); OBESITY (physiopathology); PANCREATITIS (physiopathology); PREDIABETIC STATE (diagnosis); STIMULATION, CHEMICAL; TOLBUTAMIDE (diagnostic use).

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FREQUENCY OF ISCHAEMIC HEART DISEASE IN PATIENTS WITH OVERT DIABETES [LETTER]. Vaishana H, Rizvi SN *J Assoc Physicians India* 24: 127-9, Feb 76 (Eng) DL/77APR148

ADULT; AGED; CORONARY DISEASE (complications, occurrence); DIABETES MELLITUS (complications); FEMALE; HUMAN; INDIA; MALE; MIDDLE AGE.

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[HYPEROSMOTIC COMA] Vakhtina TI, Mogilevskaya Ts *Klin Med (Mosk)* 54: 127-9, Sep 76 (Rus) DL/77APR199

AGED, CASE REPORT; DIABETIC COMA (diagnosis); FEMALE; HUMAN; MIDDLE AGE.

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[VERIFICATION OF THE CHOLESTEROL HYPOTHESIS IN ATHEROGENESIS WITH A MODEL OF DIETARY ATHEROMATOSIS IN CHICKENS FED WITH EGGS. INFLUENCE OF INSULIN AND ORAL ANTIDIABETICS] Valdes Chavarri M, Pascual-Leone A, O'Connor C *Rev Clin Exp* 143: 427-35, 15 Dec 76 (Spa) DL/77APR284

ANIMAL; ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism); CHICKENS; CHOLESTEROL, DIETARY (metabolism); COMPARATIVE STUDY; DIET; ATHEROGENIC; DISEASE MODELS, ANIMAL; ENGLISH ABSTRACT; HYPOGLYCEMIC AGENTS (metabolism); INSULIN (metabolism); LIVER (metabolism).

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RESPONSE OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN TO ARGININE. Patton GS, Ipp E, Dobbs RE, Orcl L, Vale W, Unger RH *Life Sci* 19: 1957-9, 15 Dec 76 (Eng) DL/77APR214

MYELIN BASIC PROTEIN: A SUBSTANCE THAT RELEASES IMMUNOREACTIVE GROWTH HORMONE IN VITRO. Villarreal JA, Vale W, Brown M, Butcher M, Brazeau P, Rivier C, Burgess R *Biochem Biophys Res Commun* 70: 551-8, 17 May 76 (Eng) \*DL/77APR750

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[CORRELATION BETWEEN LACTATE OUTPUT AND INSULIN SECRETION OF THE ISOLATED PERFUSED RAT PANCREAS UNDER THE INFLUENCE OF HIGH CONCENTRATIONS OF PHENFORMIN] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Blayac JP, Valette G *C R Soc Biol (Paris)* 170: 828-32, 1976 (Fre) DL/77APR17

[ADENOSINE TRIPHOSPHATE (ATP) AND GLUCOSE. ACTION ON INSULIN AND GLUCAGON SECRETION] Loubatieres-Mariani MM, Loubatieres AL, Chapal J, Valette G *C R Soc Biol (Paris)* 170: 833-6, 1976 (Fre) DL/77APR18

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FOREFOOT PERFUSION PRESSURE AND MINOR AMPUTATION FOR GANGRENE. Verta MJ Jr, Gross WS, van Bellen B, Yao JS, Bergan JJ *Surgery* 80: 729-34, Dec 76 (Eng) DL/77APR318

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[INFLUENCE OF THE OXYGENATION STATE OF THE CULTURE MEDIA ON THE LEVEL OF NON ESTERIFIED FATTY ACIDS AND OF CHOLESTEROL IN HEART CELLS OF THE NEWBORN RAT] Freyss-Beguini M, Mathieu-Levy N, Van Brussel E, Lechat P *C R Soc Biol (Paris)* 169: 1429-35, 1975 (Fre) \*DL/77APR462

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PHOSPHATIDYLINOSITOL EXCHANGE PROTEIN. EFFECTS OF MEMBRANE STRUCTURE ON ACTIVITY AND EVIDENCE FOR A PING-PONG MECHANISM. Helmkamp GM Jr, Wirtz KW, van Deenen LL *Arch Biochem Biophys* 174: 592-602, Jun 75 (Eng) \*DL/77APR743

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A METABOLIC AND ELECTRON MICROSCOPIC STUDY OF HUMAN ORGAN-CULTURED CORNEA. Lindstrom RL, Doughman DJ, Van Horn DL, Dancil D, Harris JE *Am J Ophthalmol* 82: 72-82, Jul 76 (Eng) \*DL/77APR730

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CYPROHEPTADINE-INDUCED INSULIN DEPLETION IN RAT PANCREATIC BETA CELLS: DEMONSTRATION BY LIGHT AND ELECTRON MICROSCOPIC IMMUNOCYTOCHEMISTRY. Rickert DE, Fischer LJ, Burke JP, Redick JA, Erlandsen SL, Parsons JA, Van Orden LS *3d Horm Metab Res* 8: 430-4, Nov 76 (Eng) DL/77APR125

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AN IMPROVED METHOD FOR THE DESCRIPTION OF NON-ELECTROLYTE PERMEATION THROUGH LIPOSOMES, BASED ON IRREVERSIBLE THERMODYNAMICS. van Zoelen EJ, Blok MC, de Gier J *Biochim Biophys Acta* 436: 301-6, 17 Jun 76 (Eng) \*DL/77APR441

BINDING SITES; BIOLOGICAL TRANSPORT; ERYTHRITOL; GLUCOSE; GLYCERIN; KINETICS; LIPOSOMES; MATHEMATICS; MODELS, BIOLOGICAL; TEMPERATURE; THERMODYNAMICS; TIME FACTORS.

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SOMATOSTATIN AND THE SECRETION OF GROWTH HORMONE INDUCED BY EXOGENOUS CYCLIC 3:5-ADENOSINE MONOPHOSPHATE IN MAN. Vanderschueren-Lodeweyckx M, Henquin JC, Lambert A, Proesmans W, Eggermont E, Eeckels R *Acta Paediatr Belg* 29: 153-8, Jul-Sep 76 (Eng) DL/77APR362

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADULT; BLOOD SUGAR; GLUCAGON (blood); HUMAN; INSULIN (blood); MALE; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (secretion).

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INSULIN DEGRADATION. XVIII. ON THE REGULATION OF GLUTATHIONE-INSULIN TRANSHYDROGENASE IN THE HYPERGLYCEMIC OBESE (OB/OB) MOUSE. Varandani PT, Nafiz MA *Biochim Biophys Acta* 451: 382-92, 21 Dec 76 (Eng) DL/77APR2

ANIMAL; GEL DIFFUSION TESTS; GLUCOSEPHOSPHATASE (metabolism); HYPERGLYCEMIA (metabolism); INSULIN (metabolism); KIDNEY (enzymology); KINETICS; LIVER (enzymology); MALE; MICE; MICE, OBESE; MICROSOMES, LIVER (enzymology); MUSCLES (enzymology); MYOCARDIUM (enzymology); OXIDOREDUCTASES (metabolism); PROTEIN DISULFIDE REDUCTASE (GLUTATHIONE) (immunology, metabolism); SPECIES SPECIFICITY; SUBCELLULAR FRACTIONS (enzymology); SUCCINATE DEHYDROGENASE (metabolism); TRITONS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

## Varma SD

DIABETIC CATARACTS AND FLAVONOIDS.

Varma SD, Mizuno A, Kinoshita JH *Science* 195: 205-6, 14 Jan 77 (Eng) DL/77APR305

ALCOHOL OXIDOREDUCTASES (metabolism); ALDOSE REDUCTASE (antagonists & inhibitors, metabolism); ANIMAL; CATARACT (enzymology, etiology, prevention & control); DIABETES MELLITUS (complications, enzymology); FLAVONES (therapeutic use); QUERCETIN (pharmacodynamics, therapeutic use); RODENTS.

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EFFECTS OF ENDOTOXIN ON CARBOHYDRATE METABOLISM IN INBRED MICE. Roy RS, Vas SI, Robson HG *Can J Comp Med* 40: 434-41, Oct 76 (Eng) DL/77APR22

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[INTRACAPILLARY PANCREATIC AUTOGRAFT IN DOGS. BLOOD SUGAR CHANGES AS COMPARED WITH A GROUP OF PAN-

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CREATECTOMIZED DOGS] Murat J, Vaur JL, Crassas Y, Gutman N, Muh JP *J Chir (Paris)* 111: 239-49, Feb 76 (Fre) \*DL/77APR561

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LONG-ACTING INJECTABLE CONTRACEPTIVES. Vecchio TJ *Adv Steroid Biochem Pharmacol* 5: 1-64, 1976 (Eng) [236] \*DL/77APR721

ADRENAL GLANDS (drug effects); ALGESTONE ACETOPHENIDE; ANIMAL EXPERIMENTS (analysis); BLOOD PRESSURE; CARBOHYDRATES (metabolism); CERVIX MUCUS (cytology); CONTRACEPTIVE AGENTS, FEMALE (administration & dosage); DELAYED-ACTION PREPARATIONS; ENDOMETRIUM (cytology); FEMALE; GONADOTROPINS (metabolism); HUMAN; INJECTIONS; LACTATION (drug effects); MEDROXYPROGESTERONE; MENSTRUATION (drug effects); NORETHINDRONE (analogs & derivatives); OVARY (physiology); OVIDUCTS (physiology); OVULATION (drug effects); REVIEW; SOMATOTROPIN (metabolism); VAGINAL SMEARS.

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LOW CONCENTRATION OF PLASMA AMINO ACIDS IN NEWBORN BABIES OF DIABETIC MOTHERS. Veitrop M, Pedersen J, Klebbe JG, Lund E *Acta Paediatr Scand* 66: 53-8, Jan 77 (Eng) DL/77APR364

AMINO ACIDS (blood); BIRTH WEIGHT; CESAREAN SECTION; FEMALE; HUMAN; INFANT, NEWBORN; PREGNANCY IN DIABETES; PREGNANCY.

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[GLYCOGENIC FUNCTION OF THE LIVER IN PATIENTS WITH ICHTHYOSIS] Kuklin VT, Eltsov VK, Belinskaia RG, Velichanskaia TB *Vestn Dermatol Venerol* 56-9, Feb 76 (Rus) \*DL/77APR702

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[STUDIES ON THE RISK FACTORS OF ARTERIOSCLEROSIS IN A HEALTH DISTRICT REGION OF LOMBARDY] Vergani C, Minozzi A, Pozzi G, Cappelletti M, Dell'Orto C, Cesana GC, Colombo F, Corbetta E *Minerva Med* 67: 3925-37, 1 Dec 76 (Ita) DL/77APR249  
ADULT; AGE FACTORS; ARTERIOSCLEROSIS (etiology); DIABETIC ANGIOPATHIES (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (complications); HYPERTENSION (complications); ITALY; MALE; OBESITY (complications); SMOKING (complications); SOCIOECONOMIC FACTORS.

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ANALYTICAL-SCALE ISOLATION OF TRIACYLGLYCEROL LIPASE FROM HUMAN ADIPOSE TISSUE. Verine A, Salers P, Rouard M, Boyer J *FEBs Lett* 66: 127-31, 1 Jul 76 (Eng) \*DL/77APR534  
ADIPOSE TISSUE (enzymology); CHROMATOGRAPHY, AFFINITY; HUMAN; LIPASE (isolation & purification); PROTEIN KINASE (isolation & purification).

### Verma SC

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BINDING SITES; LIPIDS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ; WATER.

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ADOLESCENCE, ADULT; ANIMAL; BASEMENT MEMBRANE (pathology); CAPILLARIES (pathology); CAPILLARY PERMEABILITY; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (complications, familial & genetic); DIABETES MELLITUS (pathology); DIABETES MELLITUS, JUVENILE (complications, familial & genetic); DIABETES MELLITUS, JUVENILE (pathology); DIABETIC ANGIOPATHIES (complications, pathology, physiopathology); FEMALE; HUMAN; INFANT; INFANT, NEWBORN; KIDNEY GLOMERULUS (physiopathology); MALE; MIDDLE AGE; PREDIABETIC STATE (familial & genetic); RETINAL VESSELS (pathology);

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ACIDOSIS, DIABETIC (blood, drug therapy); BIGUANIDES (therapeutic use); ENGLISH ABSTRACT; HEART FAILURE, CONGESTIVE (complications); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); KIDNEY FAILURE, CHRONIC (complications); LACTATES (blood).

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ADULT; CHOLESTEROL (blood); DIETARY CARBOHYDRATES (administration & dosage); ENGLISH ABSTRACT; HUMAN; HYPERLIPIDEMIA (blood); LIPIDS (blood); MODELS, BIOLOGICAL; MYOCARDIAL INFARCT (etiology); SUCROSE (pharmacodynamics); TRIGLYCERIDES (blood).

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ADENYL CYCLASE (antagonists & inhibitors, metabolism); ADIPOSE TISSUE (cytology); ADRENERGIC BETA RECEPTOR AGONISTS (pharmacodynamics); ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); CELL MEMBRANE (enzymology); ENZYME ACTIVATION; GLYCERIN (metabolism); ISOPROTERENOL (pharmacodynamics); PINDOLOL (analogs & derivatives, pharmacodynamics); RECEPTORS, ADRENERGIC (drug effects); REVIEW.

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ADRENAL MEDULLA (drug effects); ANIMAL; BRAIN (radiation effects); DOGS; EPINEPHRINE (secretion); INSULIN (pharmacodynamics); NOREPINEPHRINE (secretion); SECRETORY RATE (radiation effects).

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**HYPOLYCEMIA SECONDARY TO METASTASES TO THE LIVER. A CASE REPORT AND REVIEW OF THE LITERATURE.** Younis S, Soterakis J, Sossi AJ, Chawla SK, LoPresti PA *Gastroenterology* 72: 334-7, Feb 77 (Eng) DL/77APR109  
AGED; CASE REPORT;  
CYCLOPHOSPHAMIDE (therapeutic use); FLUOROURACIL (therapeutic use); HUMAN; HYPOGLYCEMIA (etiology); LIVER  
NEOPLASMS (complications, drug therapy); MALE; NEOPLASM METASTASIS; PROSTATIC NEOPLASMS (pathology).

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**DIABETOGENIC EFFECT OF TRIAMCINOLONE IN MAN WITH IMPAIRED THYROID FUNCTION: SERUM FREE FATTY ACIDS, INORGANIC PHOSPHORUS, CALCIUM AND TOTAL PROTEIN PATTERN AFTER AN ORAL GLUCOSE LOAD.** Zamrazil V, Nemec J, Felt V, Havelka J, Nedvedkova J *Endokrinologie* 68: 86-94, Oct 76 (Eng) DL/77APR60

BLOOD PROTEINS (analysis); CALCIUM (blood); FATTY ACIDS, NONESTERIFIED (blood); GLUCOSE TOLERANCE TEST; HUMAN; HYPERTHYROIDISM (blood); HYPOTHYROIDISM (blood); PHOSPHORUS (blood); THYROID DISEASES (blood); TRIAMCINOLONE (pharmacodynamics).

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ANIMAL; DIABETES MELLITUS (metabolism); DISEASE MODELS, ANIMAL; ENGLISH ABSTRACT; RATS; THYROXINE (metabolism).

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**[THE MODE OF ACTION OF INSULIN (AUTHORS TRANSL)]** Jakob A, Zapf J *Ther Umsch* 33: 586-91, Sep 76 (Ger) DL/77APR322

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**[BEHAVIOR OF PLASMA ACTH AND SOMATOTROPIN DURING HYPOLYCEMIA DUE TO INSULIN IN SUBJECTS AFFECTED BY CONGENITAL ADRENOGENITAL SYNDROME]** Cacciari E, Cicognani A, Pirazzoli P, Tassoni P, Salardi S, Bernardi F, Zappulla F, Mazzanti L *Minerva Pediatr* 28: 1545-8, 4 Aug 76 (Ita) DL/77APR228

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ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (metabolism, pharmacodynamics); GLYCOLYSIS; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism, secretion); LACTATES (biosynthesis); MALE; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADENINE NUCLEOTIDES (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CATECHOLAMINES (metabolism); CORONARY DISEASE (blood, metabolism); DOGS; DOPAMINE BETA HYDROXYLASE (blood); FATTY ACIDS, NONESTERIFIED (metabolism); LACTATES (metabolism); MONOGRAPH (mortality); MYOCARDIUM (metabolism); PYRUVATES (metabolism).

## Ziegler B

**INVESTIGATIONS ON ISOLATED ISLETS OF LANGERHANS IN VITRO. XIV. INSULIN SECRETION AND INSULIN STORES OF CULTIVATED ISLETS FROM SAND RATS (PSAMMOMYS OBEUS): INVESTIGATIONS OF GLUCOSE-DOSE RESPONSE.** Ziegler B, Ziegler M, Knospe S, Hahn HJ *Endokrinologie* 68: 95-103, Oct 76 (Eng) DL/77APR61  
ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (metabolism, secretion); ISLANDS OF LANGERHANS (metabolism); MALE; RODENTS; TIME FACTORS.

## Ziegler M

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ANGIOGRAPHY; BLOOD VOLUME; CATECHOLAMINES (urine); ENGLISH ABSTRACT; GLUCAGON (diagnostic use); HISTAMINE (diagnostic use); HUMAN;



**Zimmerman BR**

HYDROGEN-ION CONCENTRATION (physiology); HYPERTENSION (etiology); METHODS; PHEOCHROMOCYTOMA (complications, diagnosis); TYRAMINE (diagnostic use).

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ACUTE DIABETIC COMPLICATIONS. Zimmerman BR *Minn Med* 59: 757-65, Nov 76 (Eng) DL/77APR231

ACIDOSIS (etiology, metabolism); ACIDOSIS, DIABETIC (complications); BRAIN EDEMA (etiology); DIABETES MELLITUS (complications); HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA); KETOSIS, DIABETIC (complications); LACTATES (metabolism).

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[THE EFFECT OF CANE SUGAR ON SERUM LIPIDS (AUTHORS TRANSL.)] Wolfram G, Zollner N *Munch Med Wochenschr* 117: 1301-6, 8 Aug 75 (Ger) \*DL/77APR656

**Zuliani U**

OBSERVATIONS ON LIPID METABOLISM IN CHRONIC RENAL FAILURE, DURING CONSERVATIVE AND HAEMODIALYSIS THERAPY. Noverini A, Zuliani U, Bandini L, Caronna S, Montanari A, Perinotto P *Eur J Clin Invest* 6: 473-6, 30 Nov 76 (Eng) DL/77APR64

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[DIABETES MELLITUS, KNOWN IN ANCIENT TIMES] Anonymous *FNIB* 54: SUPPL 21-3, Oct 76 (Dur) DL/77APR69

DIABETES MELLITUS; HUMAN.

[ULTRA-SELECTIVE VAGOTOMY IN THE TREATMENT OF DUODENAL ULCER. REPORT ON THE ROUND TABLE DISCUSSION (77TH FRENCH SURGERY CONGRESS, 1975)] Anonymous *J Chir (Paris)* 112: 265-80, Oct 76 (Fre) DL/77APR158

CONGRESSES; DUODENAL ULCER (surgery); ENGLISH ABSTRACT; GASTRIC ACIDITY DETERMINATION; GASTRIC JUICE (secretion); GASTROINTESTINAL MOTILITY; HUMAN; INSULIN (diagnostic use); PROGNOSIS; VAGOTOMY (methods).

ROLE OF GLUCAGON IN DIABETES MELLITUS [EDITORIAL]. Anonymous *JPMA* 26: 161, Jul 76 (Eng) DL/77APR188

DIABETES MELLITUS (metabolism);

GLUCAGON (metabolism); HUMAN.

DIABETIC RETINOPATHY [EDITORIAL]. Anonymous *Med J Aust* 2: 742, 13 Nov 76 (Eng) DL/77APR222

DIABETIC RETINOPATHY (surgery); HUMAN; LASER COAGULATION; LIGHT COAGULATION.

ARNOLD LAZAROW, M.D., PH.D. (1916-1975). Anonymous *Minn Med* 59: 797-8, Nov 76 (Eng) DL/77APR237

CURRENT BIOG-OBIT; DIABETES MELLITUS (history); ENDOCRINOLOGY (history); HISTORICAL ARTICLE; HUMAN; UNITED STATES.

IS THE BASIC LESION IN DIABETES INSULIN DEFICIENCY OR INSULIN RESISTANCE? Anonymous *Nutr Rev* 34: 332-4, Nov 76 (Eng) [12] DL/77APR253

BLOOD SUGAR (metabolism); DIABETES MELLITUS (complications, etiology, metabolism); EPINEPHRINE (pharmacodynamics); GLUCOSE (diagnostic use); HUMAN; HYPERGLYCEMIA (complications); INSULIN RESISTANCE; INSULIN (deficiency); INSULIN (blood,

pharmacodynamics); PREDIABETIC STATE (etiology, metabolism); PROPRANOLOL (pharmacodynamics); REVIEW.

THE AETIOLOGY OF DIABETES [EDITORIAL]. Anonymous *NZ Med J* 84: 281-2, 13 Oct 76 (Eng) DL/77APR254

ADOLESCENCE; ADULT; ANTIBODIES; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (etiology, familial & genetic); DIABETES MELLITUS, JUVENILE (immunology); DISEASES IN TWINS; FEMALE; HUMAN; ISLANDS OF LANGERHANS (immunology); MALE; MIDDLE AGE.

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